

Artificial Neural Networks In Biological And Environmental Analysis

[#Artificial Neural Networks](#) [#Environmental Analysis](#) [#Biological Data](#) [#Machine Learning](#) [#Predictive Modeling](#)

Explore how Artificial Neural Networks revolutionize complex data analysis across biological and environmental sciences. From predicting ecological shifts and modeling climate patterns to advancing bioinformatics and pollution assessment, ANNs provide robust solutions for identifying intricate relationships and extracting critical insights. This technology empowers researchers to make informed decisions and drive innovations in vital studies of our planet and its inhabitants.

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Artificial Neural Networks In Biological And Environmental Analysis

Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn - Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn by Simplilearn 1,273,318 views 4 years ago 5 minutes, 45 seconds - This video on What is a Neural Network delivers an entertaining and exciting introduction to the concepts of **Neural Network**,. Biological and Artificial Neural Network | Basic Concepts | Neural Networks - Biological and Artificial Neural Network | Basic Concepts | Neural Networks by ENGINEERING TUTORIAL 37,596 views 3 years ago 11 minutes, 41 seconds - In this video, we are going to discuss some basic concepts related to **biological**, and **artificial neural networks**,. Check out the other ...

Intro

Biological Neural Network

Biological Neuron

Basic Neural Network

Main Parts of an Artificial Neuron

Correlating Biological and Artificial Neuron

Neural Networks Explained in 5 minutes - Neural Networks Explained in 5 minutes by IBM Technology 152,127 views 1 year ago 4 minutes, 32 seconds - Neural networks, reflect the behavior of the human brain, allowing computer programs to recognize patterns and solve common ...

Neural Networks Are Composed of Node Layers

Five There Are Multiple Types of Neural Networks

Recurrent Neural Networks

Dendrites: Why Biological Neurons Are Deep Neural Networks - Dendrites: Why Biological Neurons Are Deep Neural Networks by Artem Kirsanov 206,243 views 1 year ago 25 minutes - My name is Artem, I'm a computational neuroscience student and researcher. In this video we will see why individual neurons ...

Introduction

Perceptrons

Electrical excitability and action potential

Cable theory: passive dendrites

Active dendritic properties

Human neurons as XOR gates

Single neurons as deep neural networks

Brilliant

Recap and outro

But what is a neural network? | Chapter 1, Deep learning - But what is a neural network? | Chapter

1, Deep learning by 3Blue1Brown 15,672,041 views 6 years ago 18 minutes - Additional funding for this project provided by Amplify Partners Typo correction: At 14 minutes 45 seconds, the last index on the ...

Introduction example

Series preview

What are neurons?

Introducing layers

Why layers?

Edge detection example

Counting weights and biases

How learning relates

Notation and linear algebra

Recap

Some final words

ReLU vs Sigmoid

Artificial neural networks (ANN) - explained super simple - Artificial neural networks (ANN) - explained super simple by TileStats 9,297 views 1 year ago 26 minutes - <https://www.tilestats.com/> 1. What is a **neural network**,? 2. How to train the network with simple example data (1:10) 3. ANN vs ...

2. How to train the network with simple example data

3. ANN vs Logistic regression

4. How to evaluate the network

5. How to use the network for prediction

6. How to estimate the weights

7. Understanding the hidden layers

8. ANN vs regression

9. How to set up and train an ANN in R

Biological vs Artificial Neural Networks | A Comparison | Neural Network - Biological vs Artificial Neural Networks | A Comparison | Neural Network by ENGINEERING TUTORIAL 11,443 views

3 years ago 15 minutes - In this video, we are going to discuss about the comparison between **biological**, and **artificial neural networks**, in terms of various ...

Intro

Artificial Neuron

Speed of Operation

Data Processing

Data Storage In human brain, data is stored in its synaptic interconnections

Size and Complexity of the Network

Tolerance

Control System

Biological Neuron

Criteria for comparison

Difference Between Biological And Artificial Neuron? Idea Behind ANN Explained By Rakesh -

Difference Between Biological And Artificial Neuron? Idea Behind ANN Explained By Rakesh by

BEPEC by Kanth - #BuildExperience & Get Hired! 2,910 views 3 years ago 2 minutes, 30 seconds -

Here is a video which provides the detailed explanation about what is **biological**, neurons and idea behind **artificial neural**, ...

Watching Neural Networks Learn - Watching Neural Networks Learn by Emergent Garden 1,042,938 views 7 months ago 25 minutes - A video about **neural networks**,, function approximation, machine learning, and mathematical building blocks. Dennis Nedry did ...

Functions Describe the World

Neural Architecture

Higher Dimensions

Taylor Series

Fourier Series

The Real World

An Open Challenge

How are memories stored in neural networks? | The Hopfield Network #SoME2 - How are memories stored in neural networks? | The Hopfield Network #SoME2 by Layerwise Lectures 619,839 views 1 year ago 15 minutes - Can we measure memories in **networks**, of neurons in bytes? Or should we think of our memory differently? Submission to the ...

Where is your memory?

Computer memory in a nutshell

Modeling neural networks

Memories in dynamical systems

Learning

Memory capacity and conclusion

I programmed some creatures. They Evolved. - I programmed some creatures. They Evolved. by davidrandallmiller 3,929,613 views 3 years ago 56 minutes - This is a report of a software project that created the conditions for evolution in an attempt to learn something about how evolution ...

Intro

Spoiler Alert

Parameters

Neural Network

Evolution

Neurons

Input sensory neurons

Simulation

Brain Sizes

Gene Encoding

Kill Neurons

Radioactivity

Neural Networks Explained - Machine Learning Tutorial for Beginners - Neural Networks Explained - Machine Learning Tutorial for Beginners by LearnCode.academy 484,442 views 5 years ago 12 minutes, 7 seconds - If you know nothing about how a **neural network**, works, this is the video for you! I've worked for weeks to find ways to explain this ...

Hidden Layers

Common Configuration Options

Neural Network Initialize

Activation Functions

Example Formula

Train a Neural Network

Our Ecological Footprint and its Consequences - Our Ecological Footprint and its Consequences by Alexandros Liakopoulos 1,253 views 1 day ago 59 minutes - Dr. William E. Rees is the scientific pioneer of the quantification of "overshoot", through his notion of our Ecological Footprint, the ...

Natasha Jaques PhD Thesis Defense - Natasha Jaques PhD Thesis Defense by Natasha Jaques 637,232 views 2 years ago 1 hour, 30 minutes - Presentation of my thesis "Towards Social and Affective Machine Learning" ...

Introduction

Machine Learning

Intrinsic Motivation

Conclusion

Clarification

Hypothesis

Example

Extra Papers

Thank You

QA

What is a Neural Network | Neural Networks Explained in 7 Minutes | Edureka - What is a Neural Network | Neural Networks Explained in 7 Minutes | Edureka by edureka! 203,147 views 4 years ago 7 minutes, 34 seconds - ----- Instagram:

https://www.instagram.com/edureka_learning/ ...

Introduction

Deep Learning

Example

Processing

Back Propagation

Visual Translation

SelfDriving Cars

Virtual Assistants

Gaming

Wordsmith

Artificial Neural Network (ANN) Modeling using MATLAB nftool - Artificial Neural Network (ANN) Modeling using MATLAB nftool by Tahsina Alam 31,606 views 3 years ago 10 minutes, 37 seconds - An **Artificial Neural Network**, Model was built using MATLAB nftool to predict PM2.5 from meteorological data. Mistake: While ...

Google's self-learning AI AlphaZero masters chess in 4 hours - Google's self-learning AI AlphaZero masters chess in 4 hours by ChessNetwork 1,565,223 views 6 years ago 18 minutes - Google's AI AlphaZero has shocked the chess world. Leaning on its deep **neural networks**, and general reinforcement learning ...

ANN vs CNN vs RNN | Difference Between ANN CNN and RNN | Types of Neural Networks Explained - ANN vs CNN vs RNN | Difference Between ANN CNN and RNN | Types of Neural Networks Explained by Learn with Whiteboard 102,922 views 2 years ago 5 minutes, 39 seconds - In this video, I'll provide you with a basic introduction to the types of **neural network**, and explain the difference between ANN CNN ...

Introduction

What is ANN Explained

Advantages & Disadvantages of ANN

What is CNN Explained

Advantages & Disadvantages of CNN

What is RNN Explained

Advantages & Disadvantages of RNN

Introducing Artificial Neural Networks in SPSS | Analysis and Interpretation - Introducing Artificial Neural Networks in SPSS | Analysis and Interpretation by Vahid Aryadoust, PhD 28,481 views 2 years ago 22 minutes - In this video, I will demonstrate how to run an **artificial neural network**, (ANN) **analysis**, in SPSS and interpret the output.

Predictors

Partitioning

Synaptic Weights

Model Summary

Output

Area under the Curve

Interpret Area under the Curve

Variable Importance

Percentage of Accuracy of Classification

Area under the Curve

Biological versus Artificial Neural Networks (John Hopfield) | AI Podcast Clips - Biological versus Artificial Neural Networks (John Hopfield) | AI Podcast Clips by Lex Fridman 16,629 views 4 years ago 20 minutes - John Hopfield is professor at Princeton, whose life's work weaved beautifully through **biology**, chemistry, neuroscience, and ...

Intro

Evolutionary Process

Adaptation

Mathematical system

Evolutionary adaptation

Understanding

Feedback

Generation after generation

Collective properties

1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning - 1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning by Mahesh Huddar 101,641 views 1 year ago 8 minutes, 9 seconds - 1. Introduction to **Artificial Neural Network**, | How ANN Works | Summation and Activation Function in ANN Soft Computing by ...

Introduction

Concepts of Artificial Neural Network

Neurons

Activation Function

2. #Artificial Neural Networks-Biological Neural Network-Comparison-Artificial Vs Biological Neuron -

2. #Artificial Neural Networks-Biological Neural Network-Comparison-Artificial Vs Biological Neuron

by Preethi J 12,920 views 2 years ago 22 minutes - Artificial Neural Networks,-**Biological Neural Network**, -Comparison-**Artificial**, Vs **Biological**, Neuron.

Biological Neural Network (BNN) in Artificial Neural Networks - Biological Neural Network (BNN) in Artificial Neural Networks by K Venkateswara Rao 7,910 views 2 years ago 8 minutes, 37 seconds - BNN in **Artificial Neural Networks**, is Explained briefly.

Why Neural Networks can learn (almost) anything - Why Neural Networks can learn (almost) anything by Emergent Garden 1,190,820 views 2 years ago 10 minutes, 30 seconds - A video about **neural networks**,, how they work, and why they're useful. My twitter: https://twitter.com/max_romana

SOURCES ...

Intro

Functions

Neurons

Activation Functions

NNs can learn anything

NNs can't learn anything

but they can learn a lot

Talk: Contrast between biological and artificial neural network - Talk: Contrast between biological and artificial neural network by Neuromatch Conference 68 views 3 years ago 13 minutes, 55 seconds - Presented during Neuromatch Conference 3.0, Oct 26-30, 2020. **Summary**,: This talk will be about the differences between ANNs ...

Biological Network

Biological neural networks (BNN)

Artificial neural networks (ANN)

Power Consumption/ Topologies

What is Artificial Neural Network? | ANN | Machine Learning #shorts - What is Artificial Neural Network? | ANN | Machine Learning #shorts by SCALER 16,557 views 2 years ago 50 seconds – play Short - Simplifying **Artificial Neural Network**, in a minute. ANN or **Artificial Neural Networks**, are algorithms that try to recognise the patterns, ...

Neural networks are a set of algorithms

Neural networks are modeled loosely after the human brain

For more insights Follow SCALER!

The Essential Main Ideas of Neural Networks - The Essential Main Ideas of Neural Networks by StatQuest with Josh Starmer 806,764 views 3 years ago 18 minutes - Neural Networks, are one of the most popular Machine Learning algorithms, but they are also one of the most poorly understood.

Awesome song and introduction

A simple dataset and problem

Description of Neural Networks

Creating a squiggle from curved lines

Using the Neural Network to make a prediction

Some more Neural Network terminology

Artificial Neural Networks Revolutionize Biological Image Analysis | Lucas-Raphael Müller, EMBL - Artificial Neural Networks Revolutionize Biological Image Analysis | Lucas-Raphael Müller, EMBL by PyData 979 views 2 years ago 5 minutes, 27 seconds - Lightning Talk EMBL scientists and their collaborators have developed DECODE, a **neural network**, based fitter that accelerates ...

Welcome!

Help us add time stamps or captions to this video! See the description for details.

Artificial neural networks can predict the microbial community from wastewater treatment plants - Artificial neural networks can predict the microbial community from wastewater treatment plants by Research Square 136 views 10 months ago 1 minute, 37 seconds - Liu et al. "Predicting microbial community compositions in wastewater treatment plants using **artificial neural networks**,,

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artificial-neural-networks-biological-analysis
ann-applications-environmental-monitoring

neural-networks-bio-environmental-data

Artificial Neural Networks (ANN), Biological Analysis, Environmental Analysis, Bioinformatics, Environmental Monitoring

Explore the applications of Artificial Neural Networks (ANNs) in biological and environmental analysis. Learn how ANNs are used for data analysis, modeling, and prediction in fields like bioinformatics, environmental monitoring, and understanding complex biological systems. Discover the benefits of using ANNs to extract meaningful insights from complex datasets in these critical areas of research and application.

[Integration Of Swarm Intelligence And Artificial Neural Network](#)

Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn - Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn by Simplilearn 1,281,315 views 4 years ago 5 minutes, 45 seconds - This video on What is a, Neural Network delivers an entertaining and exciting introduction to the concepts of **Neural Network**,.

AI News: CoALA, Theory of Mind, Artificial Neurons, Swarm Intelligence, and Neural Convergence - AI News: CoALA, Theory of Mind, Artificial Neurons, Swarm Intelligence, and Neural Convergence by David Shapiro 20,113 views 6 months ago 18 minutes - Patreon (and Discord) <https://www.patreon.com/daveshap> Substack (Free) <https://daveshap.substack.com/> GitHub (Open Source) ...

Download Integration of Swarm Intelligence And Artificial Neural Network (Series in Machine Perc PDF - Download Integration of Swarm Intelligence And Artificial Neural Network (Series in Machine Perc PDF by Alissa Treece 7 views 7 years ago 32 seconds - <http://j.mp/1RlfaEt>.

Swarm intelligence simulation. Project "Screaming Insects" - Swarm intelligence simulation. Project "Screaming Insects" by Simulife Hub 108,082 views 10 months ago 13 minutes, 43 seconds - I tried to simulate **swarm intelligence**,. Blind agents must look for resources and deliver them to the base. Communicate at a, short ...

Screaming Insects.

Description of the "Screaming Insects"

First implementation

Screaming Insects the latest version

AEcology: Massive Neural Network AI swarms - AEcology: Massive Neural Network AI swarms by AlgorithmicEcology 1,265 views 8 years ago 3 minutes, 44 seconds - This is a, short demo video to showcase AEcology's performance in implementing large AI **swarm**, behaviors. To learn more check ...

particle swarm optimisation (PSO) algorithm in 30secs - particle swarm optimisation (PSO) algorithm in 30secs by AN EEE SCHOOL 19,153 views 1 year ago 24 seconds - particle **swarm**, optimisation in 30 secs #shorts.

Swarm Intelligence: From Bees Feeding Bees, To Cars Charging Cars | Tim Landgraf | TEDxVicenza - Swarm Intelligence: From Bees Feeding Bees, To Cars Charging Cars | Tim Landgraf | TEDxVicenza by TEDx Talks 23,120 views 5 years ago 12 minutes, 29 seconds - Tim Landgraf obtained his PhD degree with renowned neurobiologist Randolph Menzel and famous roboticist Raúl Rojas. He built ...

What is Swarm Intelligence? - What is Swarm Intelligence? by California Management Review 45,593 views 4 years ago 2 minutes, 45 seconds - What is the best way to make a, decision as a, group? **A**, new collaboration technology called **Artificial Swarm Intelligence**, (ASI) ...

Intro

Example

Algorithm

Term 'Swarm Intelligence' and its importance - Term 'Swarm Intelligence' and its importance by Binge-on-atoms with Vidushi 6,252 views 3 years ago 4 minutes, 19 seconds - Here I am explaining the concept of '**Swarm Intelligence**,' to a, bunch of students. This short video covers the definition, origins, and ...

Watching Neural Networks Learn - Watching Neural Networks Learn by Emergent Garden 1,060,042 views 7 months ago 25 minutes - A, video about **neural networks**,, function approximation, machine learning, and mathematical building blocks. Dennis Nedry did ...

Functions Describe the World

Neural Architecture

Higher Dimensions

Taylor Series

Fourier Series

The Real World

An Open Challenge

CLOSE Your EYES & FEEL DMT Being RELEASED Thru Your PINEAL Gland (Warning: Very Powerful) | 528 Hz - CLOSE Your EYES & FEEL DMT Being RELEASED Thru Your PINEAL Gland (Warning: Very Powerful) | 528 Hz by Guardian Angel Meditation 7,395 views 1 day ago 12 hours - SLEEP76_Everyday Meditation Music to relax, meditate, study, read, massage, spa or sleep. This music is perfect to combat ...

A Swarm of One Thousand Robots - A Swarm of One Thousand Robots by IEEE Spectrum 1,703,327 views 9 years ago 2 minutes, 3 seconds - A, thousand-robot **swarm**, created by Harvard researchers can self-assemble into different shapes. Learn more: ...

Creating these abilities in artificial systems remains a significant challenge.

We developed a simple low-cost robot called "Kilobot" which allowed us to produce a 1024-robot swarm for testing collective behaviors.

The algorithm allows robots to robustly form that desired shape without human intervention, in the first thousand-robot swarm.

This work demonstrates the ability to create and program a large-scale autonomous swarm which can achieve complex global behavior from the cooperation of many limited and noisy individuals.

Why Neural Networks can learn (almost) anything - Why Neural Networks can learn (almost) anything by Emergent Garden 1,197,602 views 2 years ago 10 minutes, 30 seconds - A, video about **neural networks**, how they work, and why they're useful. My twitter: https://twitter.com/max_romana SOURCES ...

Intro

Functions

Neurons

Activation Functions

NNs can learn anything

NNs can't learn anything

but they can learn a lot

Evolution Simulator (Part 1/4) - Evolution Simulator (Part 1/4) by carykh 5,063,167 views 8 years ago 5 minutes, 34 seconds - Also, yes, I sound a, lot like Tennis Ball. I created this simulator with Processing 1.5.1. I probably should have mentioned that in the ...

What is a Neural Network | Neural Networks Explained in 7 Minutes | Edureka - What is a Neural Network | Neural Networks Explained in 7 Minutes | Edureka by edureka! 203,417 views 4 years ago 7 minutes, 34 seconds - ----- Instagram:

https://www.instagram.com/edureka_learning/ ...

Introduction

Deep Learning

Example

Processing

Back Propagation

Visual Translation

SelfDriving Cars

Virtual Assistants

Gaming

Wordsmith

Normalizing Activations in a Network (C2W3L04) - Normalizing Activations in a Network (C2W3L04) by DeepLearningAI 107,719 views 6 years ago 8 minutes, 55 seconds - Take the **Deep Learning**, Specialization: <http://bit.ly/2PGrl5o> Check out all our courses: <https://www.deeplearning.ai> Subscribe to ...

Introduction

Batch normalization

Deep normalization

Batch norm

Taming the swarm - Collective Artificial Intelligence | Radhika Nagpal | TEDxBermuda - Taming the swarm - Collective Artificial Intelligence | Radhika Nagpal | TEDxBermuda by TEDx Talks 88,984 views 8 years ago 17 minutes - Radhika is a, professor at Harvard and a, core faculty member of the Wyss Institute for Biologically Inspired Engineering.

Examples of Collective Intelligence

Pattern Formation

Program Collective Motion

Building a neural network FROM SCRATCH (no Tensorflow/Pytorch, just numpy & math) - Building a neural network FROM SCRATCH (no Tensorflow/Pytorch, just numpy & math) by Samson Zhang 1,749,902 views 3 years ago 31 minutes - Kaggle notebook with all the code: <https://www.kaggle.com/wwsalmon/simple-mnist-nn-from-scratch-numpy-no-tf-keras> Blog ...

Problem Statement

The Math

Coding it up

Results

Visualization of a fully connected neural network, version 1 - Visualization of a fully connected neural network, version 1 by Marijn van Vliet 349,995 views 1 year ago 1 minute, 7 seconds - Heavily inspired by Denis Dmitriev's work: <https://www.youtube.com/watch?v=3JQ3hYko51Y> Music by Roman Senyuk Music (The ...

What is the Ant Colony Optimization Algorithm? - What is the Ant Colony Optimization Algorithm? by Frankfurt School of Finance & Management 125,801 views 7 years ago 1 minute, 59 seconds - In an internet-based society, online trade is consistently becoming more important. However, an increasing number of parcels ...

The Essential Main Ideas of Neural Networks - The Essential Main Ideas of Neural Networks by StatQuest with Josh Starmer 813,291 views 3 years ago 18 minutes - Neural Networks, are one of the most popular Machine Learning algorithms, but they are also one of the most poorly understood.

Awesome song and introduction

A simple dataset and problem

Description of Neural Networks

Creating a squiggle from curved lines

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Some more Neural Network terminology

AI Explained: Swarm Intelligence - AI Explained: Swarm Intelligence by Meridian Technology 196 views 2 months ago 11 minutes, 12 seconds - ----- Follow Us on Social Media: | Twitter: https://twitter.com/Meridian_ATX ...

Neural Network Learns to Play Snake - Neural Network Learns to Play Snake by Greer Viau 4,499,269 views 5 years ago 7 minutes, 14 seconds - In this project I built **a neural network**, and trained it to play Snake using **a**, genetic algorithm. Thanks for watching! Subscribe if you ...

What is Swarm AI ? - What is Swarm AI ? by UNANIMOUS AI 60,206 views 6 years ago 11 minutes - Dr Louis Rosenberg reviews the biological foundation of **Swarm**, AI and gives **a**, few quick examples of how "**swarming**," can build **a**, ...

Intro

Swarm Intelligence

Honey Bee Example

Hive Mind

Examples

The Technology of SWARM AI - The Technology of SWARM AI by UNANIMOUS AI 20,528 views 5 years ago 3 minutes, 41 seconds - Unanimous AI has developed **a**, range of patented technologies that enable networked groups of people to think together as an ...

Neural Networks Explained in 5 minutes - Neural Networks Explained in 5 minutes by IBM Technology 156,150 views 1 year ago 4 minutes, 32 seconds - Neural networks, reflect the behavior of the human brain, allowing computer programs to recognize patterns and solve common ...

Neural Networks Are Composed of Node Layers

Five There Are Multiple Types of Neural Networks

Recurrent Neural Networks

Machine Intelligence - Lecture 21 (Naive Bayes, Swarm Intelligence, Ant Colonies) - Machine Intelligence - Lecture 21 (Naive Bayes, Swarm Intelligence, Ant Colonies) by Kimia Lab 5,091 views 4 years ago 49 minutes - SYDE 522 – Machine **Intelligence**, (Winter 2019, University of Waterloo)

Target Audience: Senior Undergraduate Engineering ...

Car Theft Example

Features and Attributes

P Estimator

Bayesian Inference

Swarm Intelligence

Population Based Approach

Ant Colony Optimization Applied on Traveling Salesman Problem

Travelling Salesman Problem

Ant Colony Optimization

Traveling Salesman Problem

Local Trail Update

But what is a neural network? | Chapter 1, Deep learning - But what is a neural network? | Chapter 1, Deep learning by 3Blue1Brown 15,745,195 views 6 years ago 18 minutes - Additional funding for this project provided by Amplify Partners Typo correction: At 14 minutes 45 seconds, the last index on the ...

Introduction example

Series preview

What are neurons?

Introducing layers

Why layers?

Edge detection example

Counting weights and biases

How learning relates

Notation and linear algebra

Recap

Some final words

ReLU vs Sigmoid

Artificial Neural Network (ANN) Ecosystem - Artificial Neural Network (ANN) Ecosystem by Gözde Yorulmaz 156 views 6 months ago 3 minutes - Neural Network, and **Swarm Intelligence**, | Simulation of Behavior (2023) **Swarm intelligence**, is an evolutionary algorithm inspired ...

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Artificial Neural Networks Theoretical Concepts

How Artificial Neural Networks Learn Concepts - How Artificial Neural Networks Learn Concepts by Art of the Problem 161,684 views 3 years ago 14 minutes, 22 seconds - Why do **neural networks**, need to be deep? In this video we explore how **neural networks**, transform perceptions into **concepts**,.

Introduction

Real World Applications

Layers

Concept Space

Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn - Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn by Simplilearn 1,279,749 views 4 years ago 5 minutes, 45 seconds - This video on What is a Neural Network delivers an entertaining and exciting introduction to the **concepts**, of **Neural Network**,.

But what is a neural network? | Chapter 1, Deep learning - But what is a neural network? | Chapter 1, Deep learning by 3Blue1Brown 15,725,716 views 6 years ago 18 minutes - Additional funding for this project provided by Amplify Partners Typo correction: At 14 minutes 45 seconds, the last index on the ...

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Recurrent Neural Networks

Explained In A Minute: Neural Networks - Explained In A Minute: Neural Networks by Samuel Arzt 433,047 views 6 years ago 1 minute, 4 seconds - Artificial Neural Networks, explained in a minute. As you might have already guessed, there are a lot of things that didn't fit into this ...

The Essential Main Ideas of Neural Networks - The Essential Main Ideas of Neural Networks by StatQuest with Josh Starmer 811,748 views 3 years ago 18 minutes - Neural Networks, are one of the most popular Machine Learning algorithms, but they are also one of the most poorly understood.

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Artificial neural networks (ANN) - explained super simple - Artificial neural networks (ANN) - explained super simple by TileStats 9,774 views 1 year ago 26 minutes - <https://www.tilestats.com/> 1. What is a **neural network**,? 2. How to train the network with simple example data (1:10) 3. ANN vs ...

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8. ANN vs regression

9. How to set up and train an ANN in R

EXTENDED HIGHLIGHTS! 2024 Australian Grand Prix <EXTENDED HIGHLIGHTS! 2024 Australian Grand Prix by Sky Sports F1 43,475 views 3 hours ago 15 minutes - SUBSCRIBE »

<http://bit.ly/SubscribeSkyF1> Watch highlights from the 2024 Australian Grand Prix, as Carlos Sainz took home an ...

Cloning a Cute Girl in a DNA Laboratory>Cloning a Cute Girl in a DNA Laboratory by Coby Persin 9,928,588 views 10 months ago 58 seconds – play Short - Business Inquiries: cobypersinshow@yahoo.com Model from video: @sophiacamillecollier.

Race Highlights | 2024 Australian Grand Prix - Race Highlights | 2024 Australian Grand Prix by FORMULA 1 1,567,958 views 4 hours ago 8 minutes, 15 seconds - Catch highlights of a chaotic race in Australia, with shock retirements, incredible racing and a memorable winning drive. For more ...

Watching Neural Networks Learn - Watching Neural Networks Learn by Emergent Garden 1,055,725 views 7 months ago 25 minutes - A video about **neural networks**, function approximation, machine learning, and mathematical building blocks. Dennis Nedry did ...

Functions Describe the World

Neural Architecture

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The Real World

An Open Challenge

AI just replaced us with Devin... seriously? Dr Chuck! - AI just replaced us with Devin... seriously?

Dr Chuck! by David Bombal 100,970 views 4 days ago 34 minutes - Did the Devin AI just replace us and become the first fully autonomous AI software engineer? Dr Chuck tells us if this is fact or ...

Dr Chuck's Rant: Why Nvidia and Devin are doing what they're doing!

Intro

Dr Chuck's tour to India // "Be a better programmer"

AI can't come up with new things

"Memex" explained

The next generation of search engines

AI can only learn from humans

"Computers are getting faster" // End of programming

Search engines will be obsolete because of AI // AI vs humans

Remembering Microsoft's "Clippy"

Become a master programmer // "Learn fewer things but better"

Path to the master programmer

C explains other languages

Creating a 50-year-shelf-life course

Conclusion

All Machine Learning Models Explained in 5 Minutes | Types of ML Models Basics - All Machine

Learning Models Explained in 5 Minutes | Types of ML Models Basics by Learn with Whiteboard

1,123,366 views 3 years ago 5 minutes, 1 second - Get Certified in **Artificial**, Intelligence & Machine Learning. Both tech and Non-Tech can apply! 10% off on AI Certifications.

Introduction

Overview

Supervised Learning

Linear Regression

Decision Tree

Random Forest

Neural Network

Classification

Support Vector Machine

Classifier

Unsupervised Learning

Dimensionality Reduction

Neural Network Full Course | Neural Network Tutorial For Beginners | Neural Network | Simplilearn -

Neural Network Full Course | Neural Network Tutorial For Beginners | Neural Network | Simplilearn

by Simplilearn 54,333 views Streamed 2 years ago 8 hours, 14 minutes - This full course video on **Neural Network**, tutorial will help you understand what a **neural network**, is, how it works, and what are the ...

Neural Networks Explained - Machine Learning Tutorial for Beginners - Neural Networks Explained

- Machine Learning Tutorial for Beginners by LearnCode.academy 484,725 views 5 years ago 12

minutes, 7 seconds - If you know nothing about how a **neural network**, works, this is the video for

you! I've worked for weeks to find ways to explain this ...

Hidden Layers

Common Configuration Options

Neural Network Initialize

Activation Functions

Example Formula

Train a Neural Network

How to Create a Neural Network (and Train it to Identify Doodles) - How to Create a Neural Network

(and Train it to Identify Doodles) by Sebastian Lague 1,772,731 views 1 year ago 54 minutes -

Exploring how **neural networks**, learn by programming one from scratch in C#, and then attempting to teach it to recognize various ...

Introduction

The decision boundary

Weights

Biases

Hidden layers

Programming the network

Activation functions

Cost

Gradient descent example

The cost landscape

Programming gradient descent

It's learning! (slowly)

Calculus example

The chain rule

Some partial derivatives

Backpropagation

Digit recognition

Drawing our own digits

Fashion

Doodles

Demystifying Neural Networks - deep learning - Demystifying Neural Networks - deep learning by Space Verse 44 views 2 days ago 3 minutes, 54 seconds - Demystifying **Neural Networks**, - deep learning Embark on a journey through the intricate world of **neural networks**, with our latest ...

1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning - 1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning by Mahesh Huddar 103,189 views 1 year ago 8 minutes, 9 seconds - artificial neural networks, introduction **artificial neural networks**, in Soft Computing, **artificial neural networks**, in data mining, **artificial**, ...

Biological and Artificial Neural Network | Basic Concepts | Neural Networks - Biological and Artificial Neural Network | Basic Concepts | Neural Networks by ENGINEERING TUTORIAL 37,957 views 3 years ago 11 minutes, 41 seconds - In this video, we are going to discuss some basic **concepts**, related to biological and **artificial neural networks**,. Check out the other ...

Intro

Biological Neural Network

Biological Neuron

Basic Neural Network

Main Parts of an Artificial Neuron

Correlating Biological and Artificial Neuron

Why Neural Networks can learn (almost) anything - Why Neural Networks can learn (almost) anything by Emergent Garden 1,196,870 views 2 years ago 10 minutes, 30 seconds - A video about **neural networks**,, how they work, and why they're useful. My twitter: https://twitter.com/max_romana SOURCES ...

Intro

Functions

Neurons

Activation Functions

NNs can learn anything

NNs can't learn anything

but they can learn a lot

L80: Artificial Neural Network Architecture | Advantages, Characteristics | Artificial Intelligence - L80: Artificial Neural Network Architecture | Advantages, Characteristics | Artificial Intelligence by Easy Engineering Classes 120,498 views 3 years ago 9 minutes, 7 seconds - In this video you can learn about **Artificial Neural Network**, Architecture with Advantages and Characteristics of ANN. This topic is ...

ARTIFICIAL NEURAL NETWORKS (Basic concepts) - ARTIFICIAL NEURAL NETWORKS (Basic concepts) by Innovative Engineering Sessions 181 views 3 years ago 11 minutes, 7 seconds - Basic **concepts**, of **ARTIFICIAL NEURAL NETWORKS**,.

ARTIFICIAL NEURAL NETWORKS BASIC CONCEPTS

ARTIFICIAL NEURAL NETWORKS (ANN'S)? Artificial Neural Network is an efficient computing system whose central themes borrowed from the analogy of biological neural networks. ANN's are also called parallel distributed processing systems," or "connectionist systems.

BIOLOGICAL NEURAL NETWORK (BNN)

ARTIFICIAL NEURAL NETWORK (ANN) STRUCTURE

ARTIFICIAL NEURON MATHEMATICAL MODEL

ANN versus BNN

PERFORMANCE ANALYSIS

APPLICATIONS

CONCLUSION

Neural Network Simply Explained | Deep Learning Tutorial 4 (Tensorflow2.0, Keras & Python) - Neural Network Simply Explained | Deep Learning Tutorial 4 (Tensorflow2.0, Keras & Python) by codebasics 342,943 views 3 years ago 11 minutes, 1 second - What is a **neural network**,?: Very simple explanation of a **neural network**, using an analogy that even a high school student can ...

Backward Error Propagation

The Motivation behind Neural Networks

Error Loop

Deep Learning Basics: Introduction and Overview - Deep Learning Basics: Introduction and Overview by Lex Fridman 2,274,461 views 5 years ago 1 hour, 8 minutes - An introductory lecture for MIT course 6.S094 on the basics of deep learning including a few key **ideas**, subfields, and the big ...

Introduction

Deep learning in one slide

History of ideas and tools

Simple example in TensorFlow

TensorFlow in one slide

Deep learning is representation learning

Why deep learning (and why not)

Challenges for supervised learning

Key low-level concepts

Higher-level methods

Toward artificial general intelligence

How Deep Neural Networks Work - Full Course for Beginners - How Deep Neural Networks Work - Full Course for Beginners by freeCodeCamp.org 2,553,851 views 4 years ago 3 hours, 50 minutes - Even if you are completely new to **neural networks**, this course will get you comfortable with the **concepts**, and math behind them.

How neural networks work

What neural networks can learn and how they learn it

How convolutional neural networks (CNNs) work

How recurrent neural networks (RNNs) and long-short-term memory (LSTM) work

Deep learning demystified

Getting closer to human intelligence through robotics

How CNNs work, in depth

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Artificial Neural Networks In Hydrology 1st Edition

Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn - Neural Network In 5 Minutes | What Is A Neural Network? | How Neural Networks Work | Simplilearn by Simplilearn 1,280,662 views 4 years ago 5 minutes, 45 seconds - This video on What is a Neural Network delivers an entertaining and exciting introduction to the concepts of **Neural Network**,.

Hydrological Modeling using Artificial Neural Networks - Hydrological Modeling using Artificial Neural Networks by Mahmoud Zemzami 3,382 views 8 years ago 2 minutes, 22 seconds - Simulation of the **hydrology**, catchment of an arid watershed using **artificial neural networks**,.

Artificial neural networks (ANN) - explained super simple - Artificial neural networks (ANN) - explained super simple by TileStats 9,830 views 1 year ago 26 minutes - <https://www.tilestats.com/> 1. What is a **neural network**,? 2. How to train the network with simple example data (1:10) 3. ANN vs ...

2. How to train the network with simple example data

3. ANN vs Logistic regression

4. How to evaluate the network

5. How to use the network for prediction

6. How to estimate the weights

7. Understanding the hidden layers

8. ANN vs regression

9. How to set up and train an ANN in R

1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning - 1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning by Mahesh Huddar 103,423 views 1 year ago 8 minutes, 9 seconds - artificial neural networks, introduction **artificial neural networks**, in Soft Computing, **artificial neural networks**, in data mining, **artificial**, ...

Introduction

Concepts of Artificial Neural Network

Neurons

Activation Function

But what is a neural network? | Chapter 1, Deep learning - But what is a neural network? | Chapter 1, Deep learning by 3Blue1Brown 15,736,405 views 6 years ago 18 minutes - Additional funding for this project provided by Amplify Partners Typo correction: At 14 minutes 45 seconds, the last index on the ...

Introduction example

Series preview

What are neurons?

Introducing layers

Why layers?

Edge detection example

Counting weights and biases

How learning relates

Notation and linear algebra

Recap

Some final words

ReLU vs Sigmoid

Hydrological modelling in Matlab | Part 1 - Hydrological modelling in Matlab | Part 1 by My Knowledge space 2,387 views 1 year ago 12 minutes, 56 seconds - In this video using the concepts learned in the earlier parts regarding the preparation of data and also lag components to extract ...

Introduction

Running the model

Results

Running model again

Testing correlation

How Artificial Neural Networks Learn Concepts - How Artificial Neural Networks Learn Concepts by Art of the Problem 161,785 views 3 years ago 14 minutes, 22 seconds - Why do **neural networks**, need to be deep? In this video we explore how **neural networks**, transform perceptions into concepts.

Introduction

Real World Applications

Layers

Concept Space

Artificial Neural Networks explained - Artificial Neural Networks explained by deeplizard 127,939 views 6 years ago 4 minutes, 45 seconds - In this video, we explain the concept of **artificial neural networks**, and show how to create one (specifically, a multilayer perceptron ...

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Neural Networks Explained in 5 minutes - Neural Networks Explained in 5 minutes by IBM Technology 155,740 views 1 year ago 4 minutes, 32 seconds - Neural networks, reflect the behavior of the human brain, allowing computer programs to recognize patterns and solve common ...

Neural Networks Are Composed of Node Layers

Five There Are Multiple Types of Neural Networks

Recurrent Neural Networks

Watching Neural Networks Learn - Watching Neural Networks Learn by Emergent Garden 1,058,038 views 7 months ago 25 minutes - A video about **neural networks**, function approximation, machine learning, and mathematical building blocks. Dennis Nedry did ...

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Higher Dimensions

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The Real World

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Neural Network Full Course | Neural Network Tutorial For Beginners | Neural Network | Simplilearn -

Neural Network Full Course | Neural Network Tutorial For Beginners | Neural Network | Simplilearn by Simplilearn 54,363 views Streamed 2 years ago 8 hours, 14 minutes - This full course video on **Neural Network**, tutorial will help you understand what a **neural network**, is, how it works, and what are the ...

Neural Network Learns to Play Snake - Neural Network Learns to Play Snake by Greer Viau 4,499,094 views 5 years ago 7 minutes, 14 seconds - In this project I built a **neural network**, and trained it to play Snake using a genetic algorithm. Thanks for watching! Subscribe if you ...

Machine Learning vs Deep Learning - Machine Learning vs Deep Learning by IBM Technology 542,083 views 1 year ago 7 minutes, 50 seconds - Get a unique perspective on what the difference is between Machine Learning and Deep Learning - explained and illustrated in a ...

Difference between Machine Learning and Deep Learning

Supervised Learning

Machine Learning and Deep Learning

The man who leaked classified military secrets | Four Corners - The man who leaked classified military secrets | Four Corners by ABC News In-depth 3,035 views 2 hours ago 46 minutes - An Australian military lawyer leaked classified files to a journalist. The story that followed detailed allegations of Australians ...

Neural Networks Explained - Machine Learning Tutorial for Beginners - Neural Networks Explained - Machine Learning Tutorial for Beginners by LearnCode.academy 484,815 views 5 years ago 12 minutes, 7 seconds - If you know nothing about how a **neural network**, works, this is the video for you! I've worked for weeks to find ways to explain this ...

Hidden Layers

Common Configuration Options

Neural Network Initialize

Activation Functions

Example Formula

Train a Neural Network

Machine Learning / Neural Networks Using SPSS - Machine Learning / Neural Networks Using SPSS by Andrew R. Timming 21,181 views 3 years ago 30 minutes - This is lecture 1.3 in my undergraduate course entitled, "The Future of Work." If you haven't listened to it already, check out ...

Intro

Data

Variables

Neural Networks

Output

Results

Rerun

Building a neural network FROM SCRATCH (no Tensorflow/Pytorch, just numpy & math) - Building a neural network FROM SCRATCH (no Tensorflow/Pytorch, just numpy & math) by Samson Zhang 1,747,456 views 3 years ago 31 minutes - Kaggle notebook with all the code: <https://www.kaggle.com/wwsalmon/simple-mnist-nn-from-scratch-numpy-no-tf-keras> Blog ...

Problem Statement

The Math

Coding it up

Results

How to Create a Neural Network (and Train it to Identify Doodles) - How to Create a Neural Network (and Train it to Identify Doodles) by Sebastian Lague 1,773,344 views 1 year ago 54 minutes - Exploring how **neural networks**, learn by programming one from scratch in C#, and then attempting to teach it to recognize various ...

Introduction

The decision boundary

Weights

Biases

Hidden layers

Programming the network

Activation functions

Cost

Gradient descent example

The cost landscape

Programming gradient descent

It's learning! (slowly)

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The chain rule

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Digit recognition

Drawing our own digits

Fashion

Doodles

The final challenge

My Understanding of the Manifold Hypothesis - structure in real world data - Generative Modeling -

My Understanding of the Manifold Hypothesis - structure in real world data - Generative Modeling by

Kartik Chincholikar 28,830 views 3 years ago 6 minutes, 29 seconds - If you think I've misunderstood something, please let me know in the comments! Below is the mash up of quotes which motivate ...

Not smooth

Anime-Girl Manifold

Perceptron | Neural Networks - Perceptron | Neural Networks by First Principles of Computer Vision

55,450 views 2 years ago 8 minutes, 47 seconds - First, Principles of Computer Vision is a lecture

series presented by Shree Nayar who is faculty in the Computer Science ...

Activation Function of a Perceptron

Perceptron: Example

Perceptron as a Linear Classifier

Perceptron as a NAND Gate

NAND: Universal Logic Gate

Perceptrons: Computational Universality

Perceptrons: 1-bit Adder

Why Neural Networks can learn (almost) anything - Why Neural Networks can learn (almost)

anything by Emergent Garden 1,197,290 views 2 years ago 10 minutes, 30 seconds - A video about **neural networks**, how they work, and why they're useful. My twitter: https://twitter.com/max_romana

SOURCES ...

Intro

Functions

Neurons

Activation Functions

NNs can learn anything

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Neural ODEs in Hydrology | Marvin Höge | SciMLCon 2022 - Neural ODEs in Hydrology | Marvin

Höge | SciMLCon 2022 by The Julia Programming Language 2,123 views 1 year ago 19 minutes -

Neural, ODEs in **Hydrology**, | Marvin Höge | SciMLCon 2022 Abstract: For stream flow predictions in **hydrology**, commonly two types ...

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Neural Network Code in R: Machine learning Introduction - Neural Network Code in R: Machine

learning Introduction by LiquidBrain Bioinformatics 23,768 views 4 years ago 8 minutes, 57 seconds

- Use a single line to do **Neural network**, in R.

Introducing Artificial Neural Networks in SPSS | Analysis and Interpretation - Introducing Artificial

Neural Networks in SPSS | Analysis and Interpretation by Vahid Aryadoust, PhD 28,661 views 2

years ago 22 minutes - In this video, I will demonstrate how to run an **artificial neural network**,

(ANN) analysis in SPSS and interpret the output.

Predictors

Partitioning

Synaptic Weights

Model Summary

Output

Area under the Curve

Interpret Area under the Curve

Variable Importance

Percentage of Accuracy of Classification

Area under the Curve

How Deep Neural Networks Work - Full Course for Beginners - How Deep Neural Networks Work - Full Course for Beginners by freeCodeCamp.org 2,575,977 views 4 years ago 3 hours, 50 minutes - Even if you are completely new to **neural networks**,, this course will get you comfortable with the concepts and math behind them.

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How recurrent neural networks (RNNs) and long-short-term memory (LSTM) work

Deep learning demystified

Getting closer to human intelligence through robotics

How CNNs work, in depth

Artificial Neural Network (ANN) modeling using Matlab - Artificial Neural Network (ANN) modeling using Matlab by RESEARCH HUB 60,871 views 1 year ago 35 minutes - This video demonstrates an implementation of **Artificial Neural Network**, (ANN) modeling using Matlab in the context of energy ...

Multiple Linear Regression Results

Simple Code

Import the Data in Matlab

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1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning -

1. Introduction to Artificial Neural Network | How ANN Works | Soft Computing | Machine Learning by Mahesh Huddar 102,909 views 1 year ago 8 minutes, 9 seconds - 1. Introduction to **Artificial Neural Network**, | How ANN Works | Summation and Activation Function in ANN Soft Computing by ...

Introduction

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Neurons

Activation Function

Neural Networks Explained in 5 minutes - Neural Networks Explained in 5 minutes by IBM Technology 154,551 views 1 year ago 4 minutes, 32 seconds - Neural networks, reflect the behavior of the human brain, allowing computer programs to recognize patterns and solve common ...

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Five There Are Multiple Types of Neural Networks

Recurrent Neural Networks

Biological and Artificial Neural Network | Basic Concepts | Neural Networks - Biological and Artificial Neural Network | Basic Concepts | Neural Networks by ENGINEERING TUTORIAL 37,927 views 3 years ago 11 minutes, 41 seconds - In this video, we are going to discuss some basic concepts related to biological and **artificial neural networks**,. Check out the other ...

Intro

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Main Parts of an Artificial Neuron

Correlating Biological and Artificial Neuron

Artificial Neural Networks explained - Artificial Neural Networks explained by deeplizard 127,837 views 6 years ago 4 minutes, 45 seconds - In this video, we explain the concept of **artificial neural networks**, and show how to create one (specifically, a multilayer perceptron ...

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But what is a neural network? | Chapter 1, Deep learning - But what is a neural network? | Chapter 1, Deep learning by 3Blue1Brown 15,710,816 views 6 years ago 18 minutes - Additional funding for this project provided by Amplify Partners Typo correction: At 14 minutes 45 seconds, the last index on the ...

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What are neurons?

Introducing layers

Why layers?

Edge detection example

Counting weights and biases

How learning relates

Notation and linear algebra

Recap

Some final words

ReLU vs Sigmoid

OpenAI and Figure's NEW Robot Stuns in Demo Video - OpenAI and Figure's NEW Robot Stuns in Demo Video by AlImpact Insights 17,656 views 8 days ago 2 minutes, 35 seconds - This video comes from Figure, a company focused on bringing robots to market or as they like to call it, "Embodied AI." From their ...

Watching Neural Networks Learn - Watching Neural Networks Learn by Emergent Garden 1,052,206 views 7 months ago 25 minutes - A video about **neural networks**,, function approximation, machine learning, and mathematical building blocks. Dennis Nedry did ...

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Neural Architecture

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Fourier Series

The Real World

An Open Challenge

ChatGPT: 30 Year History | How AI Learned to Talk - ChatGPT: 30 Year History | How AI Learned to Talk by Art of the Problem 823,674 views 3 months ago 26 minutes - This video explores the journey of AI language models, from their modest beginnings through the development of OpenAI's GPT ...

Introduction

hofstader's thoughts on chatGPT

recap of supervised learning

first paper on sequential learning

first use of state units (RNN)

first observation of word boundary detection

first observation of word clustering

first "large" language model Hinton/Sutskever

sentiment neuron (Ilya | OpenAI)

transformer explanation

GPT-1

GPT-2

GPT-3

In-context learning

ChatGPT

tool use

philosophical question: what is thought?

Why Neural Networks can learn (almost) anything - Why Neural Networks can learn (almost)

anything by Emergent Garden 1,196,020 views 2 years ago 10 minutes, 30 seconds - A video about **neural networks**, how they work, and why they're useful. My twitter: https://twitter.com/max_romana

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Intro

Functions

Neurons

Activation Functions

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What is a Neural Network | Neural Networks Explained in 7 Minutes | Edureka - What is a Neural Network | Neural Networks Explained in 7 Minutes | Edureka by edureka! 203,322 views 4 years ago 7 minutes, 34 seconds - ----- Instagram:

https://www.instagram.com/edureka_learning/ ...

Introduction

Deep Learning

Example

Processing

Back Propagation

Visual Translation

SelfDriving Cars

Virtual Assistants

Gaming

Wordsmith

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Exploring how **neural networks**, learn by programming one from scratch in C#, and then attempting to teach it to recognize various ...

Introduction

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Some partial derivatives

Backpropagation

Digit recognition

Drawing our own digits

Fashion

Doodles

The final challenge

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Neural Networks Part 8: Image Classification with Convolutional Neural Networks (CNNs) - Neural
Networks Part 8: Image Classification with Convolutional Neural Networks (CNNs) by StatQuest
with Josh Starmer 192,481 views 3 years ago 15 minutes - One of the coolest things that **Neural
Networks**, can do is classify images, and this is often done with a type of **Neural Network**, ...
Awesome song and introduction
Image classification with a normal Neural Network
The main ideas of Convolutional Neural Networks
Creating a Feature Map with a Filter
Pooling
Using the Pooled values as input for a Neural Network
Classifying an image of the letter "X"
Classifying a shifted image of the letter "X"
What are Neural Networks || How AIs think - What are Neural Networks || How AIs think by Code
Bullet 610,720 views 5 years ago 12 minutes, 14 seconds - Big thanks to Brilliant.org for supporting
this channel check them out at <https://www.brilliant.org/CodeBullet> check out Brandon ...
Intro
What is a neuron
Strength of connections
Wave
Activation Functions
Example
Bias neuron
What are Convolutional Neural Networks (CNNs)? - What are Convolutional Neural Networks
(CNNs)? by IBM Technology 215,883 views 2 years ago 6 minutes, 21 seconds - Convolutional **neural
networks**, or CNNs, are distinguished from other **neural networks**, by their superior performance
with image, ...
The Artificial Neural Network
Filters
#23 Introduction to Artificial Neural Networks & their Representation of Neural Networks [ML] -
#23 Introduction to Artificial Neural Networks & their Representation of Neural Networks [ML] by
Trouble- Free 191,153 views 2 years ago 10 minutes, 18 seconds - Telegram group : [https://t.me/join-
chat/G7ZZ_SsFfcNiMTA9](https://t.me/join-chat/G7ZZ_SsFfcNiMTA9) contact me on Gmail at shraavyareddy810@gmail.com contact me on ...
Introduction to Artificial Neural Networks
What Neural Network Is
Artificial Neurons
Summation Function
Representation of these Artificial Neural Networks
Hidden Layer
Input Layer
How Artificial Neural Networks Learn Concepts - How Artificial Neural Networks Learn Concepts by
Art of the Problem 161,567 views 3 years ago 14 minutes, 22 seconds - Why do **neural networks**,
need to be deep? In this video we explore how **neural networks**, transform perceptions into
concepts.
Introduction
Real World Applications
Layers
Concept Space
2. Three Basic Components or Entities of Artificial Neural Network Introduction | Soft Computing -
2. Three Basic Components or Entities of Artificial Neural Network Introduction | Soft Computing
by Mahesh Huddar 34,820 views 1 year ago 9 minutes, 32 seconds - 2. Three Basic Components
or Entities of **Artificial Neural Network**, Introduction | Soft Computing | Machine Learning by
Mahesh ...
Artificial Neural Network
3 Basic Components or Entities of ANN
Connections

Learning

Activation Functions

What Is Artificial Neural Networks | Introduction To Neural Networks | Neural Networks Explained - What Is Artificial Neural Networks | Introduction To Neural Networks | Neural Networks Explained by Intellipaat 3,407 views Streamed 1 year ago 8 minutes, 55 seconds - #WhatIsArtificialNeuralNetworks #IntroductionToArtificialNeuralNetworks #NeuralNetworksExplained ...

Biological vs Artificial Neural Networks | A Comparison | Neural Network - Biological vs Artificial Neural Networks | A Comparison | Neural Network by ENGINEERING TUTORIAL 11,509 views 3 years ago 15 minutes - In this video, we are going to discuss about the comparison between biological and **artificial neural networks**, in terms of various ...

Intro

Artificial Neuron

Speed of Operation

Data Processing

Data Storage In human brain, data is stored in its synaptic interconnections

Size and Complexity of the Network

Tolerance

Control System

Biological Neuron

Criteria for comparison

Artificial Neural Networks | Neural Network Tutorial | Edureka | Deep Learning Live - 1 - Artificial Neural Networks | Neural Network Tutorial | Edureka | Deep Learning Live - 1 by edureka! 5,946 views Streamed 2 years ago 38 minutes - 00:00 Introduction 01:00 Why **Neural Networks**, 02:24 Motivation Behind **Neural Networks**, 04:43 What are **Neural Networks**, 06:39 ...

Introduction

Why Neural Networks

Motivation Behind Neural Networks

What are Neural Networks

How it works

Activation Functions

Multi Layer Perceptron

Training a Neural Network

Hands On

Introducing Artificial Neural Networks in SPSS | Analysis and Interpretation - Introducing Artificial Neural Networks in SPSS | Analysis and Interpretation by Vahid Aryadoust, PhD 28,596 views 2 years ago 22 minutes - In this video, I will demonstrate how to run an **artificial neural network**, (ANN) analysis in SPSS and interpret the output.

Predictors

Partitioning

Synaptic Weights

Model Summary

Output

Area under the Curve

Interpret Area under the Curve

Variable Importance

Percentage of Accuracy of Classification

Area under the Curve

How Neural Networks work in Machine Learning ? Understanding what is Neural Networks - How Neural Networks work in Machine Learning ? Understanding what is Neural Networks by Coding Lane 38,988 views 2 years ago 8 minutes, 7 seconds - How **Neural Network**, works in Machine Learning ? In this video, we will understand what is **Neural Networks**, in Machine Learning ...

Video Agenda

How Human brain works

How Artificial Neural Networks work

What is a Neuron

Layers in Neural Network

Input Layer

Output Layer

Hidden Layers

How many Neurons or Layers should we take?

Weights in Neural Network

How to train the weights

Neural Networks Explained - Machine Learning Tutorial for Beginners - Neural Networks Explained - Machine Learning Tutorial for Beginners by LearnCode.academy 484,664 views 5 years ago 12 minutes, 7 seconds - If you know nothing about how a **neural network**, works, this is the video for you! I've worked for weeks to find ways to explain this ...

Hidden Layers

Common Configuration Options

Neural Network Initialize

Activation Functions

Example Formula

Train a Neural Network

Neural Networks and Deep Learning: Crash Course AI #3 - Neural Networks and Deep Learning: Crash Course AI #3 by CrashCourse 321,451 views 4 years ago 12 minutes, 23 seconds - Thanks to the following patrons for their generous monthly contributions that help keep Crash Course free for everyone forever: ...

Introduction

ImageNet

AlexNet

Hidden Layers

Artificial Neural Networks - Fun and Easy Machine Learning - Artificial Neural Networks - Fun and Easy Machine Learning by Augmented AI 83,581 views 6 years ago 18 minutes - Deep learning and **Neural Networks**, are probably one of the hottest tech topics right now. Large corporations and young startups ...

Intro

ARTIFICIAL NEURAL NETWORKS

STATE OF ANN

WHAT ARE NEURAL NETWORKS?

ARTIFICIAL NEURON - THE HEART OF A NEURAL NETWORK

LAYERS OF A NEURAL NETWORK

ACTIVATION FUNCTIONS

EXAMPLE

LEARNING PROCESS

BACK PROPAGATION PROCESS

STOCHASTIC GRADIENT DESCENT

LEARNING TYPES

SPLITTING DATASETS

APPLICATIONS

The Essential Main Ideas of Neural Networks - The Essential Main Ideas of Neural Networks by StatQuest with Josh Starmer 810,568 views 3 years ago 18 minutes - Neural Networks, are one of the most popular Machine Learning algorithms, but they are also one of the most poorly understood.

Awesome song and introduction

A simple dataset and problem

Description of Neural Networks

Creating a squiggle from curved lines

Using the Neural Network to make a prediction

Some more Neural Network terminology

Neural Network Simply Explained - Deep Learning for Beginners - Neural Network Simply Explained - Deep Learning for Beginners by Python Simplified 48,242 views 2 years ago 6 minutes, 38 seconds - In this video, we will talk about **neural networks**, and some of their basic components! **Neural Networks**, are machine ...

What is a Neural Network

How Computers See Images

What is a Label

Hidden Layers

Training

Weights

Optimization

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(hidden layers). A network is typically called a deep neural network if it has at least 2 hidden layers. Artificial neural networks are used for predictive... 157 KB (16,980 words) - 21:50, 22 March 2024
can be done within seconds by using the technology of artificial neural network. Effective real-time flood forecasting models could be useful for early... 8 KB (1,130 words) - 21:35, 16 July 2023
Telecommunications forecasting Transport planning and forecasting Weather forecasting, flood forecasting and meteorology In several cases, the forecast is either... 40 KB (5,233 words) - 01:47, 20 March 2024
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more general set of algorithms. Swarm prediction has been used in the context of forecasting problems. Similar approaches to those proposed for swarm robotics... 41 KB (4,570 words) - 03:13, 26 February 2024
objectives. For example, convolutional neural networks (CNN) are good at interpreting images, artificial neural networks (ANN) perform well in soil classification... 52 KB (5,035 words) - 09:23, 25 November 2023
for a healthy and positive change, thoughts toward body image. Artificial neural network models of cognition provide methods for integrating the results... 110 KB (13,431 words) - 03:45, 18 March 2024
(2001). "Role playing: a method to forecast decisions". In Armstrong, Jon Scott (ed.). Principles of forecasting: a handbook for researchers and practitioners... 75 KB (8,989 words) - 07:26, 7 March 2024
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"Precipitation Estimation from Remotely Sensed Information using Artificial Neural Networks", is a satellite-based precipitation retrieval algorithm that... 7 KB (734 words) - 18:36, 8 November 2023
tropical cyclone intensity by satellite imagery utilizing convolutional neural networks". American Meteorological Society. 34 (2): 448. Bibcode:2019WtFor.... 211 KB (20,696 words) - 05:07, 2 March 2024
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the forecast to doubling every two years, a compound annual growth rate (CAGR) of 41%. While Moore did not use empirical evidence in forecasting that... 107 KB (11,038 words) - 08:53, 19 March 2024
Dataset by Fusing Remote Sensing and Citizen Science Data with Graph Neural Networks". In Proceedings of KDD 2020 Virtual Conference (KDD2020). ACM, New... 21 KB (2,122 words) - 05:57, 22 March 2024
convolutional neural networks, LSTM, and variational autoencoder. In the future, the Internet of things may be a non-deterministic and open network in which... 183 KB (19,742 words) - 11:54, 21 March 2024
involve computational heuristics, like alpha-beta pruning or use of artificial neural networks trained by reinforcement learning, which make games more tractable... 157 KB (17,151 words) - 00:10, 17 March 2024
Armitage-Doll multistage model of carcinogenesis Arrival theorem Artificial neural network Ascertainment bias ASReml – software Association (statistics)... 87 KB (8,291 words) - 17:22, 19 March 2024
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Using 3nm Process Technology With GAA Architecture". Samsung. June 30, 2022. Retrieved July 3, 2022. "'Artificial synapse' could make neural networks... 270 KB (22,800 words) - 18:09, 22 March 2024

envelope allows damage-resilient UAVs, using non-linear analysis with ad hoc designed loops or neural networks. UAV software liability is bending toward... 136 KB (12,562 words) - 23:35, 7 March 2024

Flood prediction with neural networks - Flood prediction with neural networks by Marcos Feria Cerrada 635 views 4 years ago 2 minutes, 7 seconds - Video explaining the article I analyzed for the Story Telling Module of the Master in Decision Making and Innovation of FUE.

Artificial Neural Network Code on Weather Dataset ANN || Lesson 24 | Deep Learning | Learning Monkey - Artificial Neural Network Code on Weather Dataset ANN || Lesson 24 | Deep Learning | Learning Monkey by Learning Monkey 4,306 views 3 years ago 11 minutes, 37 seconds - deeplearning#neuralnetwork#learningmonkey In this class, we discuss **artificial neural network**, code on weather datasets.

Flood prediction using machine learning and deep learning - Flood prediction using machine learning and deep learning by LogicalDataScientist 2,627 views 3 years ago 29 minutes - SOLUTION APPROACH I have studied several Solutions for Short-Term **Flood Prediction Using**, Single Methods that is currently ...

Rainfall forecasting using neural network with MATLAB - Rainfall forecasting using neural network with MATLAB by MATLAB Solutions 9,330 views 5 years ago 2 minutes, 9 seconds - Rainfall **forecasting using neural network with**, MATLAB , **using**, historical data. visit our website: <https://www.matlabsolutions.com/> ...

Flood Prediction Using AI Model Explained | Batch no. 16 Minor project - Flood Prediction Using AI Model Explained | Batch no. 16 Minor project by M SONU PREETHAM,CSE2020 Vel Tech, Chennai 752 views 10 months ago 9 minutes, 25 seconds

AI for flood forecasting | Grey Nearing at Google - AI for flood forecasting | Grey Nearing at Google by AI for Good 2,784 views Streamed 1 year ago 1 hour, 29 minutes - Flooding, is one of the most common and costly types of natural disaster, **with**, disproportionate human impacts in developing ...

Machine Learning Weather Forecasting [End to End Project] #machinelearning #randomforests - Machine Learning Weather Forecasting [End to End Project] #machinelearning #randomforests by The Data Future Lab 6,625 views 6 months ago 24 minutes - Machine Learning Weather **Forecasting**, [End to End Project] Decision tree, random forest, KNN, SVM, Naive Bays algorithm ...

A Survey on Graph Neural Networks for Time Series - A Survey on Graph Neural Networks for Time Series by Temporal Graph Learning 2,139 views 5 months ago 1 hour, 14 minutes - Temporal Graph Learning Reading Group Paper: "A Survey on Graph **Neural Networks**, for Time Series: **Forecasting**,, ...

Air Quality Index(AQI) Prediction using random forest classifier - Air Quality Index(AQI) Prediction using random forest classifier by Tulsee Bisen 12,084 views 2 years ago 10 minutes, 20 seconds - Here I have 1st calculated the AQI values based upon the values of different pollutants present in air **using**, AQI calculation formula ...

Project: Data Analysis and Visualizations and Predicting Future Energy Consumption using LSTM Predic - Project: Data Analysis and Visualizations and Predicting Future Energy Consumption using LSTM Predic by Soumil Shah 46,030 views Streamed 4 years ago 15 minutes - <https://soumil-shah1995.blogspot.com/2019/08/project-data-analysis-and.html>.

Multivariate Time Series Forecasting Using LSTM, GRU & 1d CNNs - Multivariate Time Series Forecasting Using LSTM, GRU & 1d CNNs by Greg Hogg 103,727 views 2 years ago 1 hour, 8 minutes - Subscribe if you enjoyed the video! Best Courses for Analytics: ...

Lstm

Convolutional Neural Networks

Using Multiple Variables

Splitting into Train Tests and Validation Sets

Validation Loss

Pre-Processing the Input

ScienceCasts: Predicting Floods - ScienceCasts: Predicting Floods by ScienceAtNASA 60,845 views 8 years ago 3 minutes, 31 seconds - Predicting **floods**, is notoriously tricky.Sponsored by NASA, a new computer tool known as the "Global **Flood**, Monitoring System" is ...

Introduction

Predicting Floods

Global Flood Monitoring System

How it Works

Use Cases

gpm

Predict The Weather with Machine Learning: Beginner Project - Predict The Weather with Machine Learning: Beginner Project by Dataquest 75,849 views 2 years ago 42 minutes - In this video, we'll learn how to predict your local weather **with**, machine learning. We'll start by downloading the data, then we'll ...

Introduction

downloading the data

reading the data into pandas

preparing the data for machine learning

filling in missing values

verifying we have the correct data types

analyzing our weather data

training our first machine learning model

evaluating our model

creating a function to make predictions

adding in rolling means

adding in monthly and daily averages

running model diagnostics

next steps with this project

Forecasting with the FB Prophet Model - Forecasting with the FB Prophet Model by Rob Mulla 59,905 views 1 year ago 20 minutes - In this video I show how you can **use**, facebook's prophet model to easily do time series **forecasting**, in python. This model is very ...

Intro

Data and Imports

Features and EDA

Test Split

Train and Predict

Evaluate Forecast

Adding Holidays

Make Future Dataframe

Python ML #03: Rainfall Prediction Using Linear Regression Model - Python ML #03: Rainfall Prediction Using Linear Regression Model by Bek Brace 32,440 views 3 years ago 15 minutes - In this video, you'll learn how to **use**, linear regression model **with**, the help of machine learning in Python to predict the rainfall in ...

Machine Learning Project : Weather prediction using Python (Naïve Bayes) - Machine Learning Project : Weather prediction using Python (Naïve Bayes) by AK Python 44,226 views 2 years ago 9 minutes, 49 seconds - In this video, we're going to see about a new project in machine learning that is able to predict the weather. Here I am **using**, the ...

Applying Deep Learning Models in Flood Forecasting: a Case Study of Singapore - Applying Deep Learning Models in Flood Forecasting: a Case Study of Singapore by TheWaterChannel Productions 867 views 3 years ago 13 minutes, 54 seconds - To cater to the imminent threats of changing weather patterns and increase urbanisation, Singapore's national water agency, PUB ...

Introduction

Introduction to Singapore

Singapores Flood Forecasting System

Artificial Intelligence

Objectives

Case Study

Flood Prediction using Machine Learning | Microsoft Codefundo++ Project | IIT Bombay - Flood Prediction using Machine Learning | Microsoft Codefundo++ Project | IIT Bombay by Sudhir Shinde 7,520 views 5 years ago 3 minutes, 28 seconds - though there are more irregularities of Indian monsoon from past several years so one cannot be sure to predict the **flood**, but ...

Inflow forecasting of a Bhavanisagar reservoir using ANN - Inflow forecasting of a Bhavanisagar reservoir using ANN by Civilian Thoughts 227 views 1 year ago 18 minutes - Inflow **Forecasting**, of Bhavanisagar Reservoir **Using Artificial Neural Network**, (ANN): A Case Study. In: Ramanagopal, S., Gali, M., ...

Forecasting with Neural Networks: Part A - Forecasting with Neural Networks: Part A by Galit Shmueli 46,593 views 7 years ago 11 minutes, 48 seconds - What is a **neural network**,, **neural network**, terminology, and setting up a network for time series **forecasting**, This video supports the ...

A typical neural network looks like this

Example: consumer acceptance of cheese

Example #1: NN with no hidden layers

NN architecture for roll-forward forecasting (single hidden layer example)

Artificial Neural Network Based Novel Flood Prediction Model - Artificial Neural Network Based Novel Flood Prediction Model by General Sir John Kotelawala Defence University KDU 328 views 4 years ago 9 minutes, 40 seconds - Artificial Neural Network, Based Novel **Flood Prediction**, Model; A Case Study in Rathnapura in Sri Lanka KAA Chathurangi, LLG ...

How we're using machine learning to deliver rapid probabilistic flood predictions - How we're using machine learning to deliver rapid probabilistic flood predictions by Stantec 2,229 views 1 year ago 10 minutes, 55 seconds - With, catastrophic events growing, we need innovation. **Flood**, Predictor uses Machine Learning trained **with**, modeling and ...

Intro

Lifecycle of a FEMA Risk MAP Project

Flood Manager Potential Applications and Benefits

Parallel Computing in Action

Flood Manager Project - Iowa DNR

Flood Predictor Potential Applications

Engineering Features: Data Harvesting

Engineering Features: Data Derivatives

Engineering Features: Dimensionless Engineering Features

Flood Predictor Project - TN Plan

2010-2021 Flood Fatalities

Rainfall Prediction- Converting A Kaggle Project to End To End Machine Learning Project - Rainfall Prediction- Converting A Kaggle Project to End To End Machine Learning Project by Krish Naik 61,595 views 2 years ago 6 minutes, 50 seconds - In this video we will learn about the Rainfall **prediction**, end to end Machine learning Project. Entire Credits To Vasanth Vasanth ...

Artificial Neural Network (ANN) modeling using Matlab - Artificial Neural Network (ANN) modeling using Matlab by RESEARCH HUB 60,704 views 1 year ago 35 minutes - This video demonstrates an implementation of **Artificial Neural Network**, (ANN) modeling **using**, Matlab in the context of energy ...

Multiple Linear Regression Results

Simple Code

Import the Data in Matlab

Report the Mean Squared Error

Forecasting Weather with Neural Prophet and Python - Forecasting Weather with Neural Prophet and Python by Nicholas Renotte 37,398 views 3 years ago 23 minutes - Tired of sucky weather **forecasts**,? Want to make the most of those sunny days when they come? You're probably better off ...

Start

Installing and Importing Neural Prophet

Reading and Preprocessing Weather Data

Training a Neural Prophet Model

Generating Forecasts. with Neural Prophet

Saving and Reloading Neural Prophet Models

Hydrological Modeling using Artificial Neural Networks - Hydrological Modeling using Artificial Neural Networks by Mahmoud Zemzami 3,381 views 8 years ago 2 minutes, 22 seconds - Simulation of the hydrology catchment of an arid watershed **using artificial neural networks**,.

Using Flood Modeller in Flood Forecasting - Using Flood Modeller in Flood Forecasting by Flood Modeller 347 views 4 years ago 20 minutes - Flood forecasting, underpins the wider Flood Warning service provided by the Environment Agency. In a recent overhaul for the ...

CAPITA

Outline

Forecasting models

Project Background

Methodology

Routing models

Hydrodynamic models

Performance Testing

Conclusion

Final reflections

Prediction of Data using neural network tool(nntool) - Prediction of Data using neural network tool(nntool) by Omkar Chitnis 93,385 views 3 years ago 8 minutes, 41 seconds - The **Neural Network**, Toolbox provides algorithms, pre-trained models, and apps to create, train, visualize, and simulate neural ...

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