

Deep Learning Foundation

Instructors:

krish naik:

Having 10+ years of experience in Data Science and Analytics with product architecture design and delivery. Worked in various product and service based Company. Having an experience of 5+ years in educating people and helping them to make a career transition.

Curriculum:

Complete Road Map To Prepare For Deep Learning

- Roadmap Preview

Tutorial 1- Introduction to Neural Network and Deep Learning

Tutorial 2- How does Neural Network Work

Tutorial 3-Activation Functions Part-1

Tutorial 4: How to train Neural Network with BackPropogation

Tutorial 5- How to train MultiLayer Neural Network and Gradient Descent

Tutorial 6-Chain Rule of Differentiation with BackPropagation

Tutorial 7- Vanishing Gradient Problem

Tutorial 8- Exploding Gradient Problem in Neural Network

Tutorial 9- Drop Out Layers in Multi Neural Network

Tutorial 10- Activation Functions Rectified Linear Unit(relu) and Leaky Relu Part 2

Deep Learning-Activation Functions-Elu, PRelu,Softmax,Swish And Softplus

Tutorial 11- Various Weight Initialization Techniques in Neural Network

Tutorial 12- Stochastic Gradient Descent vs Gradient Descent

Tutorial 13- Global Minima and Local Minima in Depth Understanding

Tutorial 14- Stochastic Gradient Descent with Momentum

Tutorial 15- Adagrad Optimizers in Neural Network

Tutorial 16- AdaDelta and RMSprop optimizer

Deep Learning-All Optimizers In One Video-SGD with Momentum,Adagrad,Adadelta,RMSprop,Adam Optimizers

Tutorial 17- Create Artificial Neural Network using Weight Initialization Tricks

Keras Tuner Hyperparameter Tuning-How To Select Hidden Layers And Number of Hidden Neurons In ANN

Tutorial 18- Hyper parameter Tuning To Decide Number of Hidden Layers in Neural Network

Tutorial 19- Training Artificial Neural Network using Google Colab GPU

Tutorial 20- Convolution Neural Network vs Human Brain

Tutorial 21- What is Convolution operation in CNN?

Tutorial 22- Padding in Convolutional Neural Network

Tutorial 23- Operation Of CNN(CNN vs ANN)

Tutorial 24- Max Pooling Layer In CNN

Tutorial 25- Data Augmentation In CNN-Deep Learning

Tutorial 26- Create Image Dataset using Data Augmentation using Keras-Deep Learning-Data Science

Tutorial 27- Create CNN Model and Optimize using Keras Tuner- Deep Learning

Tutorial 28- Create CNN Model Using Transfer Learning using Vgg 16, Resnet

Tutorial 29- Why Use Recurrent Neural Network and Its Application

Tutorial 30- Recurrent Neural Network Forward Propagation With Time

Tutorial 31- Back Propagation In Recurrent Neural Network

Tutorial 32- Problems In Simple Recurrent Neural Network

Tutorial 33- Installing Cuda Toolkit And cuDNN For Deep Learning

Tutorial 34- LSTM Recurrent Neural Network In Depth Intuition

Word Embedding - Natural Language Processing| Deep Learning

Implementing Word Embedding Using Keras- NLP | Deep Learning

Develop your Neural Network Like A Google Deep Learning Developer

Kaggle Faker News Classifier Using LSTM- Deep LEarning| Natural Language Processing

Stock Price Prediction And Forecasting Using Stacked LSTM- Deep Learning

Bidirectional RNN Indepth Intuition- Deep Learning Tutorial

Implement Kaggle Fake News Classifier Using Bidirectional LSTM RNN

Sequence To Sequence Learning With Neural Networks| Encoder And Decoder In-depth Intuition

Develop Your First Deep Learning End To End Project As A Beginner In Data Science in 30 minutes

Encoder And Decoder- Neural Machine Learning Language Translation Tutorial With Keras- Deep Learning

Problems With Encoders And Decoders- Indepth Intuition

Live Session- Understanding Attention Models Architecture And Maths Intuition- Deep Learning

Live Session- Encoder Decoder, Attention Models, Transformers, Bert Part 1

Live- Attention Models, Transformers And Bert In depth Intuition Deep Learning- Part 2

Live -Transformers Indepth Architecture Understanding- Attention Is All You Need

How To Train Deep Learning Models In Google Colab- Must For Everyone

Alexnet Architecture In-depth-Discussion Along With Code-Deep Learning Advanced CNN

VGGNET Architecture In-depth Discussion Along With Code -Deep Learning Advanced CNN

Hummingbird-Run Traditional Machine Learning model on Deep Neural Network frameworks-Data Science

Lets Implement LSTM RNN Models For Univariate Time Series Forecasting- Deep Learning

TensorDash- How To Monitor Your Deep Learning Model Metrics, Loss, Accuracy Using Mobile App

Handling Imbalanced Dataset Using Cost Sensitive Neural Networks- Credit Card Fraud Detection

500+ Machine Learning And Deep Learning Projects All At One Place

Google Colab Pro Vs Colab Free- Benefits Of Using Colab Pro- How To Access From India