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 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 8- Exploding Gradient Problem in Neural Network

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 Propogation 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