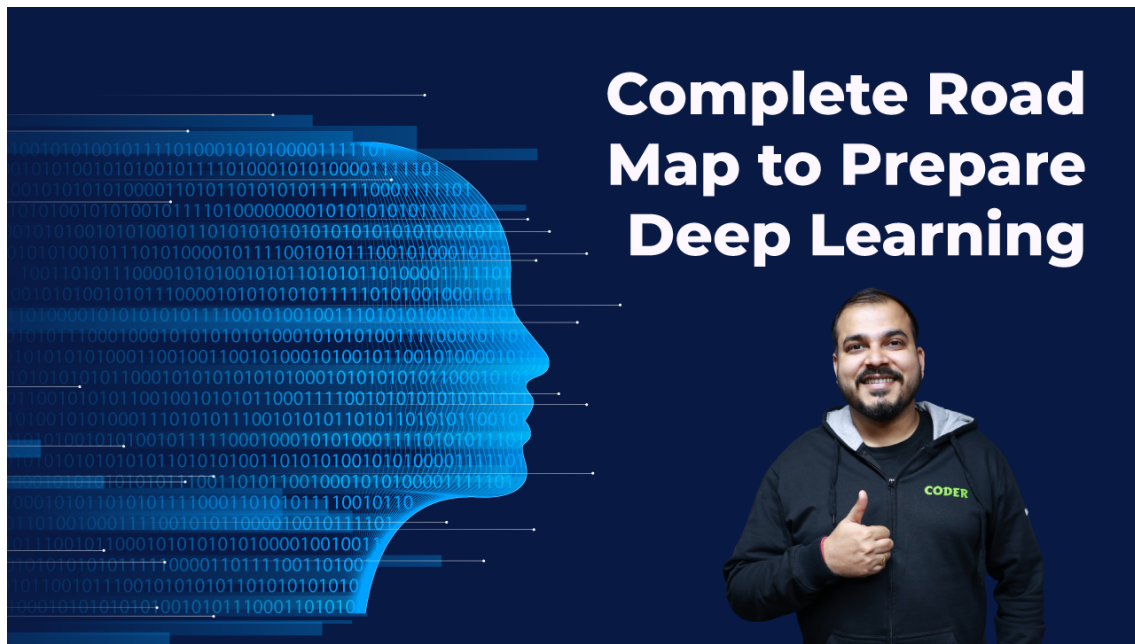


Welcome to ineuron.ai



## Deep Learning Foundation

### Description:

Deep Learning is a subfield of machine learning concerned with algorithms inspired by the structure and function of the brain called artificial neural networks. It is a function that imitates the workings of the human brain in processing data and creating patterns for use in decision making. Learn Deep Learning, Transfer Learning and Neural Networks using the latest frameworks. Become a Deep Learning Guru!

### Start Date:

### Doubt Clear Time:

### Course Time:

### Features:

# Lifetime Dashboard

# Free Course

# Certificate

# Assignment

# Quiz

### **What we learn:**

# Neural Network

# Back propagation

# CNN

### **Requirements:**

# Computer with Internet connectivity

# Basic Programming understanding

### **Instructor:**

#### **Name:**

krish naik

#### **Description:**

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.

### **>Complete Road Map To**

### **Prepare For Deep Learning:**

>>Roadmap

>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,Adadelat,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:**