



MLDL

**Description:**

This is Machine Learning masters and Deep Learning, where you will learn various things from beginning like python , API , deployment in Aws , azure , GCP , Heroku , database , various modules in statistics ,all machine learning algorithm , four mode of Chabot live Dialog flow , Amazon Lex , Azure Luis and RASA NLU , and 15+ live project all together in live instructor led class along with various mode of support and services and doubt clearing session.

**Start Date:**

28th August 2021

**Doubt Clear Time:**

10:00 PM to 12:00 AM (IST) Thursday

**Course Time:**

8PM to 10PM IST Sat-Sun

**Features:**

# Machine Learning in depth from beginning to advance discussion and implementation

# Deep learning in-depth topic wise discussion and implementation with the project.

- # Docker and Kubernetes end to end with CI/CD pipeline for machine learning.
- # End to End Model Deployment in Azure, GCP, AWS, and Pivotal Cloud.
- # Python spark implementation with the project.
- # Time Series end to end implementation in machine learning and deep learning.
- # 26 + hands-on industry real-time projects.
- # Power BI and Tableau self-placed course.
- # Machine Learning Deep Learning Masters Certificate
- # 200 hours live interactive classes.
- # Every week doubt clearing session after the live classes.
- # Lifetime Dashboard access.
- # Doubt clearing one to one
- # Doubt clearing through mail and support team
- # Assignment in all the module
- # 20+ use case of Machine learning
- # A live project with real-time implementation
- # Resume building
- # career guidance
- # interview Preparation
- # Regular assessment
- # Job alerts
- # Online Instructor-led learning: Live teaching by instructors
- # Product Demo

## **What we learn:**

- # Python

# Stats

# Machine learning

# Deep learning

# Data analytics

# Mock interview

# Interview preparation

# Resume building

**Requirements:**

# Dedication

# Laptop with internet connectivity

**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.

**Name:**

Sudhanshu Kumar

**Description:**

Having 8+ years of experience in Big data, 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.

### **>Course Introduction:**

>>Introduction of Data science and its application in Day to Day life

>>Course overview and Dashboard description

### **>Python Core:**

>>Introduction of python and comparison with other

>>Programming language

>>Installation of Anaconda Distribution and other python

>>IDE Python Objects, Number & Booleans, Strings

>>Container objects, Mutability of objects

>>Operators Arithmetic, Bitwise, Comparison and Assignment operators, Operators Precedence

>>Conditions(If else,if elif else) Loops(While ,for)

>>Break and Continue statement and Range Function.

### **>String Objects and collections:**

>>String object basics

>>String methods

>>Splitting and Joining Strings

>>String format functions

>>List object basics

>>List as stack and Queues

>>List comprehensions

**>Tuples, Set, Dictionaries &**

**Functions:**

>>Tuples,Sets Dictionary Object basics, Dictionary Object methods, Dictionary View Ob

>>Functions basics, Parameter passing, Iterators Generator functions

>>Lambda functions

>>Map , Reduce, Filter functions

**>OOPS Concepts & Working**

**With Files:**

>>OOPS basic concepts

>>Creating classes and Objects Inheritance

>>Multiple Inheritance

>>Working with files

>>Reading and writing files

>>Buffered read and write

>>Other File methods

**>Exception Handling:**

>>Exceptions Handling with Try except

**>API:**

>>Flask introduction

>>Flask Application

>>Open linkFlask

>>App RoutingFlask

>>URL BuildingFlask

>>HTTP MethodsFlask

## **>Database:**

>>Mongo DB SQL

>>Lite python SQL

## **>Python pandas Modules:**

>>Python Pandas Series

>>Python Pandas DataFrame

>>Python Pandas Panel

>>Python Pandas Basic functionality

## **>Python Numpy:**

>>NumPy Ndarray Object

>>NumPy Data Types

>>NumPy Array Attributes

>>NumPy Array Creation Routines

>>NumPy Array from Existing

>>Data Array From Numerical Ranges

- >>NumPy Indexing & Slicing
- >>NumPy Advanced Indexing
- >>NumPy Broadcasting
- >>NumPy Iterating Over Array
- >>NumPy Array Manipulation
- >>NumPy Binary Operators
- >>NumPy String Functions
- >>NumPy Mathematical Functions
- >>NumPy Arithmetic Operations
- >>NumPy Statistical Functions
- >>Sort , Search & Counting Functions
- >>NumPy Byte Swapping
- >>NumPy Copies Views
- >>NumPy Matrix Library
- >>NumPy Linear Algebra

### **>Exploratory Data Analysis:**

- >>Feature Engineering and Selection
- >>Building Tuning and Deploying Models
- >>Analyzing Bike Sharing Trends
- >>Analyzing Movie Reviews Sentiment
- >>Customer Segmentation and Effective Cross Selling
- >>Analyzing Wine Types and Quality
- >>Analyzing Music Trends and Recommendations

>>Forecasting Stock and Commodity Prices

## **>Statistics:**

>>Descriptive Statistics

>>Sample vs Population statistics Random Variables

>>Probability distribution function Expected value

>>Binomial Distribution

>>Normal Distribution z score

>>Central limit Theorem

>>Hypothesis testing Z Stats vs T stats

>>Type 1 type 2 error

>>Confidence interval

>>Chi Square test

>>ANOVA test

>>F stats

## **>Machine Learning 1:**

>>Introduction

>>Supervised , Unsupervised, Semi supervised, Reinforcement Train , Test, Validation

>>Performance Overfitting , underfitting OLS.

>>Linear Regression assumption.

>>R square adjusted

>>R square Intro to Scikit learn

>>Training methodology



- >>Hands on linear regression
- >>Ridge Regression
- >>Logistics regression
- >>Precision Recall ROC curve
- >>F Score

## **>Machine Learning 2:**

- >>Decision Tree Cross
- >>Validation Bias vs Variance
- >>Ensemble approach Bagging
- >>Boosting Random
- >>Forest Variable Importance

## **>Machine Learning 3:**

- >>XGBoost
- >>Hands on XgBoost
- >>K Nearest Neighbour
- >>Lazy learners
- >>Curse of Dimensionality
- >>K NN Issues
- >>Hierarchical clustering K Means
- >>Performance measurement
- >>Principal Component analysis
- >>Dimensionality reduction

>>Factor Analysis

## **>Machine Learning 4:**

>>SVR

>>S V M

>>Polynomial Regression

>>Ada boost

>>Gradient boost

>>Gaussian mixture

>>Anamoly detection

>>Novelty detection algorithm Stacking

>>K NN regressor

>>Decisson tree regressor DBSCAN

## **>Natural Language Processing:**

>>Text Ananlytics

>>Tokenizing , Chunking

>>Document term

>>Matrix TFIDF

>>Sentiment analysis hands on

## **>Spark:**

>>Spark overview.

>>Spark installation.

- >>Spark RDD.
- >>Spark dataframe .
- >>Spark Architecture.
- >>Spark ML lib.
- >>Spark Nlp
- >>Spark linear regression.
- >>Spark logistic regression.
- >>Spark Decision Tree.
- >>Spark Naive Bayes
- >>Spark xg boost
- >>Spark time series.
- >>Spark Deployment in local server
- >>Spark job automation with scheduler.

## **>Deep Learning:**

- >>Deep Learning Introduction.
- >>Neural Network Architecture.
- >>Loss Function.
- >>Cost Function.
- >>Optimizers.
- >>CNN architecture.
- >>Build First Classifier in CNN.
- >>Deploy Classifier over cloud.
- >>RNN overview.

>>GRU.

>>LSTM.

>>Time Series using RNN LSTM.

>>Customer Feedback analysis using RNN LSTM.

### **>Time series:**

>>Arima

>>Sarima .

>>Auto Arima

>>Time series using RNN LSTM .

>>Prediction of NIFTY stock price.

### **>Deployment:**

>>Deployment of all the project In cloudfoundary , AWS AZURE and Google cloud platf

>>Expose api to web browser and mobile application retraining a pproach of Machine le

>>Devops infrastructure for machine learning model

>>Data base integration and scheduling of machine learning model and retraining c ustom

>>AUTO ML

>>Discussion on infra cost and data volume

>>P rediction based on streaming data

### **>Extra session:**

>>Discussion on project explanation in interview

>>Data scientist roles and responsibilities

>>Data scientist day to day work

>>Companies which hire a data scientist

>>Resume discussion with our team one to one

**>Tableau and PowerBI self**

**Paced Session:**

>>Business Intelligence (BI) Concepts.

>>Microsoft Power BI (MSPBI) introduction.

>>Connecting Power BI with Different Data sources.

>>Power Query for Data Transformation.

>>Data Modelling in Power BI.

>>Reports in Power BI Reports and Visualisation types in Power BI.

>>Dashboards in Power BI.

>>Data Refresh in Power BI.

>>Traditional Visualisation(Excel) vs Tableau.

>>About Tableau.

>>Tableau vs Other BI Tool Pricing.

**>Tableau Interview Question:**