iNeuron

Machine Learning Masters

ABOUT US

We are on a mission to build a professional product-driven community around the globe where an individual can collaborate, learn, share and developreal-time use cases with trending technologies.

We at iNeuron Academy believe in delivering a quality curriculum with highly qualified professional team worked as Senior Data Scientist, Deep Learning Engineer and AI researcher in leading MNC'S around the globe. Our main focus is to provide a different way of expertise for freshers as well as professional through our community which make them work, l earn, develop and to grow in the competitive industry.

We transform an individual from zero to advance by providing them with all support from our experts and creating opportunities from our lifelong learning community who believe in sharing, learning and growing together. We believe in providing best-quality training across the globe to enrich user experience from our blended learning approach focused on a different mode of expertise to learn, build and grow. iNeuron Academy offers cost-effective, quality and more focused on building something unique for the industry with our world-wide community to work differently among the crowd

OUR SPEAKER

SUDHANSHU KUMAR
(CEO)

in /in/sudhanshu-kumar

Sudhanshu Kumar is CEO and Lead AI Engineer at iNeuron.ai and He is excited to use AI to combat different industries like healthcare, AI for kids to establish a different form of education across the globe. He has worked with Verizon Labs as a Data Scientist, Data Scientist at Deloitte India and with Wipro as a Project Engineer.

JIWITESH KUMAR
(CTO)

in /in/jiwitesh-kumar

Jiwitesh Kumar is CTO(Chief Technical Officer) at iNeuron.ai and a Chief Data Scientist Leading with product development. He is having 4+ years of experience in NLP(Natural Language Processing) and worked on more than 30+ products based on Data Science, Machine Learning, Deep Learning, Computer vision and NLP.

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 and associativity.

Conditions(If else,if-elif-else)

Loops(While ,for)

Break and Continue statements

Range functions

String Objects and collections

String object basics

String methods

Splitting and Joining Strings

String format functions

list object basics

list methods

List as stack and Queues

List comprehensions

Tuples,Set ,Dictionaries & Functions

Tuples,Sets,Dictionary Object basics,Dictionary Object methods,Dictionary View Objects.

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

Modules , Exception Handling & Database Programming

Using Standard Module

Creating new modules

Exceptions Handling with Try-except

Creating ,inserting and retrieving Table

Updating and deleting the data.

visualization

Flask introduction

Flask Application

open linkFlask

App RoutingFlask

URL BuildingFlask

HTTP MethodsFlask

TemplatesFlask

Django end to end

Database

Mongo DB

SQL lite

python SQL

Python project

Web crawlers for image data sentiment analysis and product review sentiment analysis

Integration with web portal

Integration with rest api ,web portal and Mongo DB on Azure

Deployment on web portal on Azure

Text mining

Social media data churn

Python pandas

Python Pandas - Series

Python Pandas - DataFrame

Python Pandas - Panel

Python Pandas - Basic Functionality

Function Application

Python Pandas - Reindexing

Python Pandas - Iteration

Python Pandas - Sorting

Working with Text Data

Options & Customization

Indexing & Selecting Data

Statistical Functions

Python Pandas - Window Functions

Python Pandas - Date Functionality

Python Pandas - Timedelta

Python Pandas - Categorical Data

Python Pandas - Visualization

Python Pandas - IO Tools

Python Numpy

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 Distributions

z-score

Central limit Theoram

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 Split

Performance

Overfitting ,underfitting

OLS

Linear Regression

Assumptions

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

Randon Forest

Variable Importance

Machine Learning 3

XGBoost

Hands on XgBoost

K Nearest Neighbour

Lazy learners

Curse of Dimensionality

KNN Issues

Hierarchical clustering

K-Means

Performance measurement

Principal Component analysis

Dimensionality reduction

Factor Analysis

Machine Learning4

SVR

SVM

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

Chatbot Project

Chatbot using Microsoft Luis

Chatbot using google Dialog flow

Chatbot using Amazon lex

Chatbot using Rasa NLU

Deployemnt of chatbot with web , Telegram , Whatsapp,skype

Machine learning project

Healthcare analytics prediction of medicines based on FIT BIT band

revenue forecasting for startups

prediction of order cancellation at the time of ordering inventories

Anamoly detection in inventory packaged material

fault detection in wafferes based on sensor data

Demand forecasting for FMCG product

Threat identification in security system

Defect detection in vehicle engine

food price forecasting with zomato dataset

Deployment

Deployment of all the project In cloudfoundary , AWS ,AZURE and googe cloud platform

expose api to web browser and mobile application

retraining approach of Machine learning model

Devops infrastructure for machine learning model

Data base integration and scheduling of machine learning model and retraining

Custom machine learning training approach

AUTO ML

Discussion on infra cost and data volume

prediction based on streaming data

Extra session

Discussion on project explanation in interview

data scientist roles and responsiblities

data scientist day to day work

companies which hire a data scientist

resume discussion with our team one to one

iNeuron

Thank you