

Machine Learning Mentorship Program

Basics 60 Days

Starting Point For Your Career Path ●●●

Our Mission & Vision

We help undergrad and post grad students struggling to get industrial experience with our Industry Grade Mentorship programs which help them to become corporate-ready individuals and possess the skillset to take on any challenges without any self-doubt.



Mission

Our aim is to become one of the most preferred education technology platforms accross the globe.



Vision

We envision a world in which each students receives the effective, equitable, and engaging education they need to reach thier full and unique potential.



WHAT MAKES US UNIQUE!



Live Mentorship



Regular Evaluation



Multiple Domains



Career Assistance



Challenge Based Training



Resume Building



COURSE CURRICULUM

18 SESSIONS

Induction Class

Introduction & Installation Python

Background, Need & Importance
Introduction & Installation
Writing First Program
I/O in Python

Programming Elements

Keywords & Variables
Data Types - Numbers & Strings
Operations in Python
Hands on Implementation



Conditions & Loops

Indentation & Scopes
If else & Elif Blocks
Introduction to Loops
For & While Loops
Break & Continue Statements



Data Structures

Lists, Tuples, Sets Dictionaries
CRUD Operations on Data Structures
Building Rock Paper Scissor with Console



Functions & Expection Handling

Introduction to Function
Positional & Keyword Arguments
Return Statements
Try, Catch & Finally Block



Add on Topics

File Handling - i/o
Numpy Arrays
Case Studies



Machine Learning

Understanding Prediction System
Machine Learning v/s Deep Learning
Forms of ML - Supervised & Unsupervised
Regression & Classification



Linear Regression

Sklearn Library
Prediction Pipeline
Architecture of Linear Regression
Best Fit Line & Prediction



Logistic Regression

Regression vs Classification
Logistic Regression's Architecture
Binary vs Multiclass Data



Evaluation Metrics

Loss Functions - RMSE, MSE, MAE
Accuracy - Pros & Cons
Confusion Metrics
Precision, Recall & f1 Score



KNN & SVM

Hyperplanes & Support Vectors
Architecture of SVM Classifiers
K-Nearest Neighbors Classifiers
Accuracy Comparisons



Decision Tree & Ensemble Learning

Tree Based Models
Bagging & Boosting
Concept of Ensemble Models
Random Forest Classifiers



Problem Statements

Wine Quality Prediction
Diabetes Prediction
House Price Prediction
Titanic Dataset



Unsupervised Learning-1

Need of Unsupervised Learning
K-Means Clustering
Training Kmeans



Unsupervised Learning-2

Mean Shifting Clustering
K-Means v/s Mean Shift Clustering
Industrial Use Cases of Unsupervised Learning\

Add-on-Topics

Hyperparameter Tuning
Grid Search CV & Randomized Search CV
Best Estimators & Best Params

Support

Tricks & Tips to clear interview questions
Most preferred interview questions
Resume preparation & Cover

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