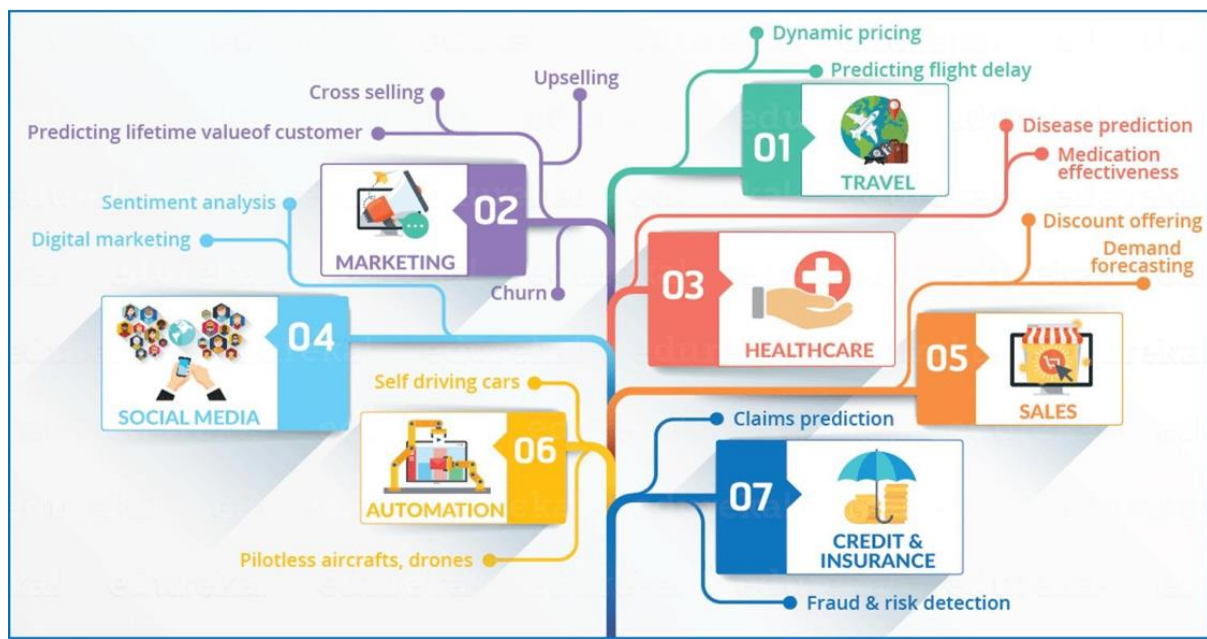


Machine Learning & Data Science with Python

Focused Job Preparation



Why Choose Eiconik Academy?

- International Faculty
- Online Live Interactive Class
- Industrial Experts
- Project Oriented Class
- Job Oriented Training
- Priority Basis Intern Facilities
- Freelancing Support
- 6 Months Course
- 4 Project
- 2 Mock Interviews

Course Module

-  Module 1 – Dev Environment Setup
-  Module 2 – Python Core
-  Module 3 – Python Functions
-  Module 4 – Python Object-Oriented Programming
-  Module 5 – Modules and Packages
-  Module 6 – File Handling – TXT, JSON, CSV
-  Module 7 – Folder and Datetime Handling
-  Module 8 – Exception Handling
-  Module 9 – Interacting with Web - Requests
-  Module 10 – Web Scraping - BeautifulSoup
-  Module 11 – Web Crawling - Scrapy
-  Capstone Project

Detailed Outline ML & DS

Module 1 – Applied Statistics

- Descriptive Stats
- Inferential Stats

Module 2 – Applied Probability

- Key Concepts
- Probability Formulas
- Conditional Probability
- Bayes Theorem

Module 3 – Scientific Computing

- N-Dimensional Array Computation - NumPy
- Scientific Computation – SciPy

Module 4 – Data Visualization

- Matplotlib

Module 5 – SQL for Data Science

- MySQL Setup
- Database
- Tables
- Constrains
- Query and Nested Queries
- Joins
- Views

Module 6 – Data Science

- Pandas – Series
- Pandas – DataFrame
- Pandas - Data Cleaning & Pre-processing
- Exploratory Data Analysis – Pandas and Seaborn

Module 7 – Machine Learning – Supervised Modelling

- Linear Regression – Regression
- Stochastic Gradient Descent – Regression & Classification
- Logistic Regression – Classification
- Support Vector Machine - Regression & Classification
- Naïve Bayes - Regression & Classification
- K Nearest Neighbors - Regression & Classification
- Decision Tree - Regression & Classification
- Multilayer Perceptron - Regression & Classification

Module 8 – Machine Learning – Ensemble Learning

- **Bagging**
 - Random Forest - Regression & Classification
- **Boosting**
 - AdaBoost - Regression & Classification

Capstone Project 1 –

- Time Series - Stock Market Prediction (Data)

Module 9 – Machine Learning – Unsupervised Modelling

- **Clustering**
 - K Means
 - Hierarchical
 - DBSCAN
- **Dimensionality Reduction-**
 - Principle Component Analysis

Career Guidance – Freelancing (Upwork) and LinkedIn

Module 10 – Image Processing

- Image – Loading, manipulation and Saving
- Transformation – Resizing, Rescaling, Rotation
- Colour and Exposure Transformation
- Feature Extraction – HOG

Capstone Project 2 –

- Crop Disease Prediction (image)

Module 11 – Natural Language Processing

- NLTK
- Tokenization
- Stop Words
- Stemming
- Lemmatization
- Vectorization

Capstone Project 3 – Sentiment Analysis (Text)

Module 12 – Deploying Models with Flask

2 Mock Interviews

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