



AIONIOS LAB

Develop Skills for a Better Future

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Complete Data Science with Machine Learning Using Python – 100 hours

Python is perfect choice for those who want to excel their career in Machine Learning, Artificial Intelligence, Deep Learning and Natural Language Processing. It proves to be useful in Data Analytics, Data Visualization and Business Analytics.

Course Structure:

PYTHON ESSENTIALS:-

- **Introduction to Python Data Types**
- **Comparison Operators**
- **Loops**
- **List Comprehension**
- **Function**
- **Lambda Expression**
- **Map**
- **Filter**

PYTHON FOR DATA ANALYSIS: - NumPy Essentials

- **NumPy Arrays**
- **NumPy Built-in methods**
- **Array Methods & Attributes**
- **Indexing**
- **Slicing**
- **Broadcasting**
- **Boolean Masking**
- **Arithmetic Operations**
- **Universal Functions**

PYTHON FOR DATA ANALYSIS: - Pandas Essentials

- **Data Structure-Series**
- **Data Structure-DataFrame**
- **Hierarchical Indexing**
- **Handling Missing Data**
- **Data Wrangling-Combining, Merging, Joining**
- **GroupBy**
- **Useful Methods and Operations**
- **PROJECT**



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PYTHON FOR DATA VISUALIZATION: -

- Matplotlib
- Seaborn
- Pandas

PYTHON FOR INTERACTIVE & GEOGRAPHICAL PLOTTING

- Plotly
- Cufflinks

CAPSTONE PROJECT

PYTHON FOR MACHINE LEARNING

- **Linear Regression**
- **Logistic Regression**
- **K-NN**
- **Decision Tree**
- **Random Forest**
- **Support Vector Machine**
- **Clustering**
- **Principal Component Analysis**

CASE STUDIES

PROJECT

COURSE COMPLETION CERTIFICATE

COURSE FEE: 35000 INR

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