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ZestGeek
Your Leading Tech Partner

Data Science 6 Months
Training Program

Why Choose us

- ✔ 100% Placement Support
- ✔ Training on Live Projects
- ✔ Modern Facilities
- ✔ Monthly Mock Interviews
- ✔ Smart Classes
- ✔ Pair Programming With Industry Experts

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OUR COURSE INCLUDE

Month 1

Core Python concepts

- ✓ Introduction – data types, operators, input & print functions, IDE's – IDLE & Jupyter Notebook
- ✓ Control flow statements - for, while, if, break
- ✓ Functions – Built-in and user defined
- ✓ Basics of Object oriented programming – classes and objects, inheritance

Introduction to data analysis

- ✓ What is data analysis
- ✓ Standard process of data analysis
- ✓ Importance of data visualization

Month 2

Multidimensional array object & fast operations on arrays (Numpy)

- ✓ Input/output
- ✓ The N-dimensional array & array attributes
- ✓ Indexing
- ✓ Array creation routines
- ✓ Array manipulation routines
- ✓ Broadcasting & universal functions
- ✓ Linear algebra
- ✓ Statistics

Fast, Flexible & Expressive Data Structure (Pandas) :

- ✓ Input/output
- ✓ Pandas Series & Dataframe
- ✓ Attributes
- ✓ Indexing
- ✓ Binary operator functions
- ✓ Function application, Groupby
- ✓ Computations, Descriptive stats
- ✓ Missing Data Handling
- ✓ Combining/ comparing/joining/merging
- ✓ Plotting

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OUR COURSE INCLUDE

Month 2

Plotting with Matplotlib

- ✓ Line/Marker plot
- ✓ Scatter plot
- ✓ Bar plot
- ✓ Pie plot
- ✓ Setting colours, adjusting text formats
- ✓ Histograms
- ✓ Customizing lines & markers
- ✓ Title & legend
- ✓ Figure layout and annotations

Month 3

Data Science – An introduction

- ✓ What is Data Science
- ✓ What are Data & What is a data set
- ✓ Data Science Ecosystem
- ✓ Standard data science task
- ✓ Future Trends

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OUR COURSE INCLUDE

Month 3

Multidimensional array object & fast operations on arrays (Numpy)

- The N-dimensional array & array attributes
- Indexing
- Broadcasting & universal functions
- Linear algebra
- Random sampling
- Statistics

Fast, Flexible & Expressive Data Structure (Pandas) :

- Input/ output
- Pandas Series & Dataframe
- Attributes
- Indexing
- Plotting
- Binary operator functions
- Function application, Groupby
- Computations, Descriptive stats
- Reindexing, selection, label manipulation
- Missing Data Handling
- Combining/ comparing/joining/merging

OUR COURSE INCLUDE

Month 4

Plotting in Python - Matplotlib

- Pyplot API & Object oriented API
- Line/Marker plot
- Scatter plot
- Bar plot
- Pie plot
- Box plot
- Histogram
- Figure layout and annotations

Introductory Statistics & probability

- Measures of central tendency
- Measures of dispersion
- Various Terms – IQR, Pearson Correlation coeff., Overfitting, Underfitting probability & bayes theorem

Introduction to Machine Learning

- Giving computers the ability to learn from data
- Types of machine learning
- Basic terminology and notations
- Roadmap for building machine learning systems

Building good training datasets – preprocessing

- Dealing with missing data
- Handling categorical data
- train- test split
- Bring features to same scale
- Selecting meaningful features

Supervised learning - Regression

- Linear regression – Simple & Multiple linear regression, ridge & lasso regression
- Decision tree & random forest regressor

OUR COURSE INCLUDE

Month 5

Supervised learning – Classification

- ✓ Logistic regression – confusion matrix, precision and recall, ROC curve
- ✓ KNN classifier – K nearest neighbour, picking suitable value of K
- ✓ Support vector classifier – Support vectors, large margin & soft margin classifier
- ✓ Decision tree – Gini impurity & Entropy
- ✓ Random forest classifier – Extra trees classifier
- ✓ Naive Bayes classifier

Unsupervised learning

- ✓ K – means clustering
- ✓ Dimensionality reduction & PCA

Month 6

Scrapy

- ✓ Scrapy project
- ✓ Command line tools
- ✓ Spiders
- ✓ Selectors
- ✓ Scrapy shell
- ✓ Items
- ✓ Feed Exports
- ✓ settings

Basics of R Programming

- ✓ Introduction & Basic objects
- ✓ Working with strings
- ✓ Reading and writing data
- ✓ Plotting
- ✓ Working with functions

Opencv

- ✓ Image basics
- ✓ Concept of pixels, colour and channels
- ✓ Coordinate system in opencv
- ✓ Reading and writing images
- ✓ Drawing basic shapes
- ✓ Image processing