



CERTIFICATION IN DATA SCIENCE

Master's in Data Science skills & and take your career to the next level!



WHO CAN JOIN THE COURSE?

- Statistics, Mathematics, and Computer Science Students: To gain practical skills and real-world applications of their theoretical knowledge.
- Students from other quantitative fields: Anyone with a strong foundation in mathematics or statistics can transition into data science.
- IT Professionals (Developers, Engineers): To leverage their programming and technical skills to build and deploy data science solutions.

GIMPLES OF OUR SUCCESSFUL TRANSITIONS



Reviews 4.6 ★★★★★



Reviews

4.8 ★★★★★



Reviews

4.8 ★★★★★



Reviews

4.9 ★★★★★





Duration- 8 Weeks

PROGRAM CURRICULUM-I

What is Data science

- Introduction to python data science
- Installation of Pandas, numpy, sklearn, Matplotlib

Basic terminologies of DS

- Data science
- Data scientist
- Data set
- Data mining
- Data visualization
- Data modeling
- Data wrangling
- Bigdata
- Machine learning
- Algorithms
- Deep learning

Hands on with Pandas-Data Analysis library

[Data Processing]

- Why Pandas?
- Features of Pandas
- Data structures in Pandas
- Series
- Data Frame
- Panel

- Panel4D

Series creation

- Using nd array
- Using dict
- Using scalar values
- Using list

Accessing elements of Series

Using indexing

- Using slicing
- Using ranging
- Using iloc method

Vectorizing operations

- Vector operations using same index values

Data Frame creation

- Using list
- Using dict
- Using nd array
- Using series
- Using Data Frame

Viewing DataFrame elements

- Using describe function
- Using column name
- Using iloc method
- Using iat method

Duration- 8 Weeks

PROGRAM CURRICULUM-II

- Using head()
- Using tail()
- Using index method

Working with Pandas Data

- Handling missing values
- Using Dropna()
- Using Fillna()
- Using add between 2 vector series

Data operations with customized functions

- Using groupby()
- Using sorting
- Using merge
- Using duplicate
- Using concatenation

Statistical functions in data operations

- Max()
- Min()
- Mean()
- Std()

Data Processing

- Processing CSV data
- Processing JSON data
- Processing XLS data
- Date and time in data

Numpy-Mathematical

Computation Why numpy?

Powerful properties of numpy

- Types of arrays
- One dimensional
- Two dimensional
- Three dimensional

Attributes of ndarray

- Using.ndim
- Using.shape
- Using.size
- Using.dtype

Basic operations

- (+, -, *, /, %, //, &, |, ~, <, <=, >, >=, ==, !=)

- Accessing array elements using axisv alues

- Indexing with Boolean array

Creating functions for arrays

- Using a range()
- Using linspace()
- Using ones()
- Using zeros()
- Using diag()
- Using random.randn()



PROGRAM CURRICULUM-III

- Using random.seed()
- Copy and view
- Deep copy
- Shallow copy
- Simple assignment
- Universal functions
- Sqrt
- Cos
- Floor
- Exp
- Shape manipulation
- Using flatten
- Using reshape
- Using resize
- Using split
- Using stack
- Broadcasting
- Using tile()
- Using ones()
- Using new axis()

Hands on with Matplotlib library-[Basic Data Visualization]

- Chart properties
- Creating a chart
- Labeling the axes
- Formatting line style and color

- Saving the chartina file

Styling the chart

- Adding annotations
- Adding legends
- Presentation style

Types of presentation styles

- Scatterplots
- Heatmaps
- Bubble chart
- Bar chart
- Pie chart
- XKCD style
- 3Dchart
- Box and whisker plots
- Time series plot
- Graph data/line graph

Advanced Data Visualization using SEABORN

- Visualization techniques used
- Histogram
- Histogram with grid
- Dist plot
- Pair plot

Scatterplot

- Lmplot
- boxplot

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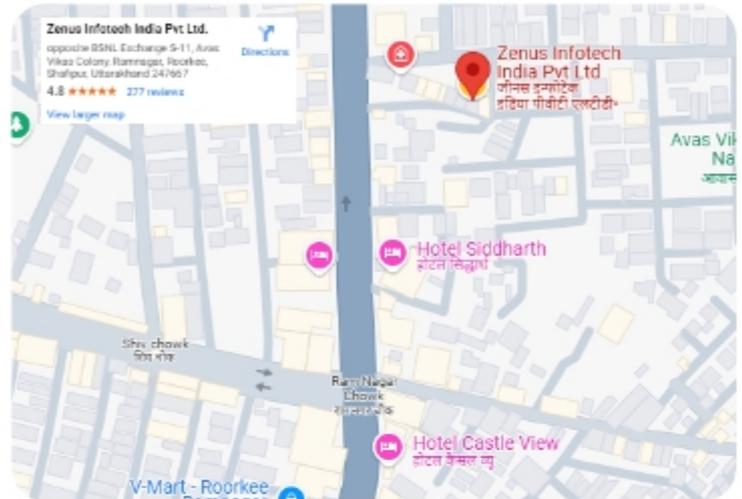
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STUDENT TESTIMONIALS

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★★★★★



Our experience with ZENUS INFOTECH has been very good. its the best company in india for industrial training and placements.

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