

Grace Tech Solutions

Training | Development | Placement

Data Science

INTRODUCTION TO DATA SCIENCE

- Introduction to Data Science
- Application areas of Data Science
- Libraries for Data Science
- Installing of Anaconda
- Virtual Environment
- Jupyter and Spyder
- Ipython

NUMPY

- NumPy Arrays
- Creation of NumPy Arrays
- Function and method of NumPy Arrays
- Attributes of NumPy Arrays
- Indexing
- Selection and slicing
- Operation on Numpy Arrays

PANDAS

- Introduction to Pandas
- Data Structure of Pandas
- DataFrames and Series
- Missing Data
- Aggregation and Composition of DataFrames
- Merging and Concatenation of DataFrames
- Joining Data frames

- Function and methods of Pandas

DATA HANDLING WITH PANDAS

- Load csv files
- Write csv file
- Load Excel file
- Write Excel file
- Load json file
- Load html with Beautiful Soup

STATISTICS

- Chi-Squared Tests
- Random Variable
- Gaussian and Normal Distributions
- Probability Density function
- Probability Mass function
- Kernel Density Estimation
- Bayes Theorem

DATA VISUALIZATION WITH MATPLOTLIB

- Install matplotlib
- Function and methods for plots
- Object oriented method for plots
- Saving plots
- Scatter plots

DATA VISUALIZATION WITH SEABORN

- Distribution Plot
- Categorical Plot
- Matrix Plot
- Grid Plot

- Regression Plot

MACHINE LEARNING

- Introduction
- Application Areas of ML
- Types of Machine Learning
- Machine Learning Process
- Machine Learning Algorithm's
- Linear Regression
- Logistic Regression
- KNN
- Decision Tree
- Random Forest
- Means Clustering
- Support Vector Machines
- Naïve Bayes

OPENCV

- Introduction
- Application Areas
- Installation
- Work with images
- Work with videos
- Image manipulation
- Object Tracking
- Face Recognition

BIG DATA

- Introduction
- Hadoop
- Data manipulation with hadoop
- Pyspark

NATURAL LANGUAGE PROCESSING

- NLTK Introduction
- Word tokenization
- Segregation of sentences
- Sentimental Analysis



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