DATA SCIENCE COURSE CONTENT

Course Duration: 80Hrs
Fee: 22,000
Contact Number: 8884441988

1. R PYTHON
2. Making Decisions and Loop Control
   - Simple if Statement, if-else Statement
   - if-elif Statement.
   - Introduction To while Loops.
   - Introduction To for Loops, Using continue and break

3. Python Data Types: List, Tuples, Dictionaries
   - Python Lists, Tuples, Dictionaries
   - Accessing Values
   - Basic Operations
   - Indexing, Slicing
   - Built-in Functions & Methods
   - Defining Functions
   - Calling Functions
   - Anonymous Functions – Lambda

4. Introduction to Python ML Packages
   - Numpy
   - Pandas
   - Matplotlib
   - Scikit learn

5. Exploratory Data Analysis
   - Numerical Analysis
   - Categorical Analysis
   - Visualizing Data: Box, Scatter, Bar & Histogram

6. Introduction To Machine Learning
   - What is Machine Learning?
   - What is the Challenge?
- Introduction to Supervised Learning, Unsupervised Learning

7. Linear Regression

- Introduction to Linear Regression
- Linear Regression with Multiple Variables
- Disadvantage of Linear Models
- Interpretation of Model Outputs
- Understanding assumptions of linear regression

8. Descriptive Statistics

- Describe or summarise a set of data
- The mean, median, mode, Kurtosis and skewness
- Computing Standard deviation and Variance.
- Covariance, Correlation and Causation

9. Logistic Regression

- Introduction to Logistic Regression— Why Logistic Regression
- Introduce the notion of classification
- Cost function for logistic regression
- Confusion Matrix, Odd's Ratio And ROC Curve
- Advantages And Disadvantages of Logistic Regression.

10. Decision Trees

- How to build decision tree?
- Understanding Kart Model
- Classification Rules- Overfitting Problem
- Stopping Criteria And Pruning
- Model A decision Tree.
- Naive Bayes
- Random Forests

11. Unsupervised Learning

- Hierarchical Clustering
- k-Means algorithm for clustering – groupings of unlabeled data points.
- Principal Component Analysis (PCA)
- 12: Natural language Processing

12. Introduction to natural Language Processing (NLP).
13. Word Frequency Algorithms for NLP
14. Sentiment Analysis
15. NLP
16. Deep learning

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