

# Rishitha Technologies

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Electronic City, Bangalore

**Become Data scientist @10,000rs in 3 months training**

**Boost your salary to 40LPA**

**Data science Syllabus (L1)**

**Part1: Python Ecosystem for Machine learning**

**Part2: Statistics & Mathematics**

**Part3: Exploratory Data analysis**

**Part4: Feature Engineering**

**Part5: Machine learning Algorithms**

**Part6: Evaluation & Performance metrics of Model**

**Part7: XGBOOST**

**Part8: Evaluation & Performance metrics of Model**

**Part9: Productionizing the Model**

**Part10: Final Project.**

**Key Highlights:**

- First 1 week sessions free
- **Spreadsheet exercise:** In this, each Algorithm will be practically analyzed on spreadsheet to make you to quickly understand the concepts
- **ML recipes:** These makes difference between a beginner who is having trouble and a fast learner capable of making accurate predictions quickly on any new project. Recipes are small standalone examples in Python that show you how to do one specific thing and get a result
- **Statistics:** Learning Statistics is always fun
- The only course which covers breadth and depth by real time **Senior Data Scientists**
- **Introductory offer @10000. Second batch onwards it is 30000rs**

## Detailed Syllabus:

### Part1: Python Ecosystem for Machine learning

- Python
- NumPy
- Matplotlib
- Pandas
- SciPy
- scikit-learn

### Part2: Statistics & Mathematics

- Inferential statistics
- Descriptive statistics
- Linear Algebra
- Probability
- Calculus

### Part3: Exploratory Data analysis

- How To Load Machine Learning Data
- Understand Your Data With Descriptive Statistics
- Understand Your Data With Visualization

### Part4: Feature Engineering

- Prepare Your Data For Machine Learning
  - Need For Data Pre-processing
  - Data Transforms
  - Rescale Data
  - Standardize Data
  - Normalize Data
  - Binarize Data (Make Binary)
- Feature Selection For Machine Learning
  - Feature Selection
  - Univariate Selection
  - Recursive Feature Elimination
  - Principal Component Analysis
  - Feature Importance

### Part5: Machine learning Algorithms

- Gradient Descent For Machine Learning
  - Gradient Descent
  - Batch Gradient Descent
  - Stochastic Gradient Descent
  - Tips for Gradient Descent
- Linear Algorithms
  - Linear Regression
  - Logistic Regression
  - Linear Discriminant Analysis

- Non linear Algorithms
  - Decision Trees
  - Naive Bayes
  - Gaussian Naive Bayes
  - k-Nearest Neighbors
  - Learning Vector Quantization
  - Support Vector Machine
- Unsupervised Algorithms
  - Clustering Algorithms
  - PCA
- Recommendation System
  - User based Collaborative Filtering
  - Item based Collaborative Filtering

## **Part6: Ensemble Algorithms**

- Bagging & Random Forest
  - Bootstrap Method
  - Bootstrap Aggregation (Bagging)
  - Random Forest
  - Estimated Performance
  - Variable Importance
  - Preparing Data For Bagged CART
- Boosting and AdaBoost
  - Learning An AdaBoost Model From Data
  - How To Train One Model
  - Making Predictions with AdaBoost
  - Preparing Data For AdaBoost

## **Part7: XGBOOST**

## **Part8: Evaluation & Performance metrics of Model**

- Evaluate Machine Learning Algorithms
  - Split into Train and Test Sets
  - K-fold Cross-Validation
  - Leave One Out Cross-Validation
  - Repeated Random Test-Train Splits
  - What Techniques to Use When
- Algorithm Evaluation Metrics
  - Classification Metrics
  - Regression Metrics

## **Part9: Productionizing the Model**

- Save and Load Machine Learning Models
- Finalize Your Model with pickle
- Tips for Finalizing Your Model
- Creating Rest services

## **Part10: Final Project.**

- Real time project (from Kaggle competition)