





# Data Analytics Certification Program

- ✓ 300+ Hiring Partners
- ✓ Hybrid Model for Project Sessions
- ✓ 175% Average Salary Hike

 [www.learnbay.co](http://www.learnbay.co)

 +91 77956 87988

 [contacts@learnbay.co](mailto:contacts@learnbay.co)

# Context

About the program

01

Program highlights

02

Why learn data science?

03

Program details

04

Domain electives

05

Check out what our alumni have to say

06

Career service

07

Learning path

08

Program syllabus

09

Real-time projects and case-studies

10

Certification

11



**2cr**

worth  
scholarships  
awarded



**600+**

professionals  
secured jobs  
after a career  
break



**30k+**

Trusted  
Learners

## About The Program

Our Data Analytics program equips professionals with practical skills and expertise to succeed in the rapidly evolving field. Students learn data visualisation, modelling, database management, ethics, and programming languages like Python, SQL, and Tableau. Graduates are in high demand in healthcare, finance, marketing, and technology. We offer affordable and industry-relevant education to empower India's workforce.



**We exist to provide accessible, reasonable, and industry-relevant education that empowers India's workforce to grow and develop.**



4.79/5



4.66/5



4.8/5



Thousands of student reviews on Switchup,  
Course Report, Google and more

# Program Highlights



## Industry-Relevant & Updated Syllabus

Learn new tools, techniques & trends. Get access to industry-level curriculum



## 360 Degree Knowledge Building

Develop practical skills through real-world projects and assignments



## 1:1 Dedicated Mentorship

Personalized learning experience from experienced industry professionals.



## Multiple Career Opportunities

Boost data analytics career and land roles as data analyst, data scientist, etc



# Why Learn Data Analytics?



60% rise in  
data science jobs



250% highest  
salary hike



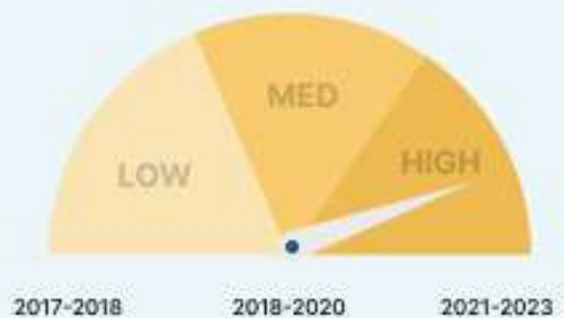
300+ partner  
companies

Average annual salary of Data Analyst  
by experience



\*\* Avg Salary in Lakhs

Demand for data science skills  
increased by **327%**



Data Science popularity in last 5 years

## Placement Report

**30K+**

Trusted Learners

**9K+**

Successfully Placed

**50K+**

Job Interviews Cracked

Book a free consultation with expert

Contacts Us

# Program Details

## ELIGIBILITY

- ✓ **Working professional** having more than 6 month of experience in any domain (Technical/Non-Technical)

### Qualification:

BE/B.Tech (from any branch), BBA/MBA, MCA/M.Tech, B.Com, B.Sc (in any branch)



**Course duration : 180+ hours**

**Weekday Batch : 5 months**

**Monday - Friday : 2 hrs/day**

**Weekend Batch : 6.5 months**

**Saturday - Sunday: 3.5 hrs/day**

## About instructors:

Experienced software development instructors share valuable practical knowledge and effective solutions, preparing students for success in the industry.

### Total Fees:

₹ 79,000/- + 18% GST

**₹ 93,220/-**

### EASY EMI

**₹ 7,768/month**

Financing partners



# What Our Alumni's Say



**Shravanthi A**

Data Scientist



Learnbay has helped me a lot to learn data science applications in the e-commerce industry. The live class concept was really helpful in receiving proper DS training. Thanks to all my mentors and the placement team.



**230%**  
Salary Hike



**Ritesh Kumar**

Associate Consultant



I knew nothing about data science before I joined Learnbay. But through a variety of instructors, I steadily developed my notion and received solid knowledge and conceptual training in data science with hike of 150%.



**150%**  
Salary Hike



**Saurabh Kumar**

Data Scientist & Statistician



When I joined Learnbay I did not have any knowledge apart from the very basics. I gradually build my concept via various trainers and get trained in data science with strong knowledge/concepts.



**135%**  
Salary Hike

# What Our Alumni's Say



**Preksha Mishra**

Lead Data Scientist

**HCL**

The course structure is excellent with emphasis on concept building and tools & software at the same time. The support team is excellent and supportive and quite agile to respond to doubts.



**140%**  
Salary Hike



**Mohd. Israr**

Data Scientist

Thanks to the Learnbay data science course & excellent guidance, I was able to ace the TCS interview and secure a job with a 210% pay raise. The real-world time projects helped me develop my concepts as a data scientist.



**210%**  
Salary Hike



**Sweekrithi shetty**

Learnbay stands out with expert-led courses that offer practical and up-to-date content. Hands-on learning and ample resources make it accessible for anyone seeking to upskill in AI, ML, or data science. Learnbay is an excellent choice to learn and grow in these rapidly-evolving fields.



# Certificates



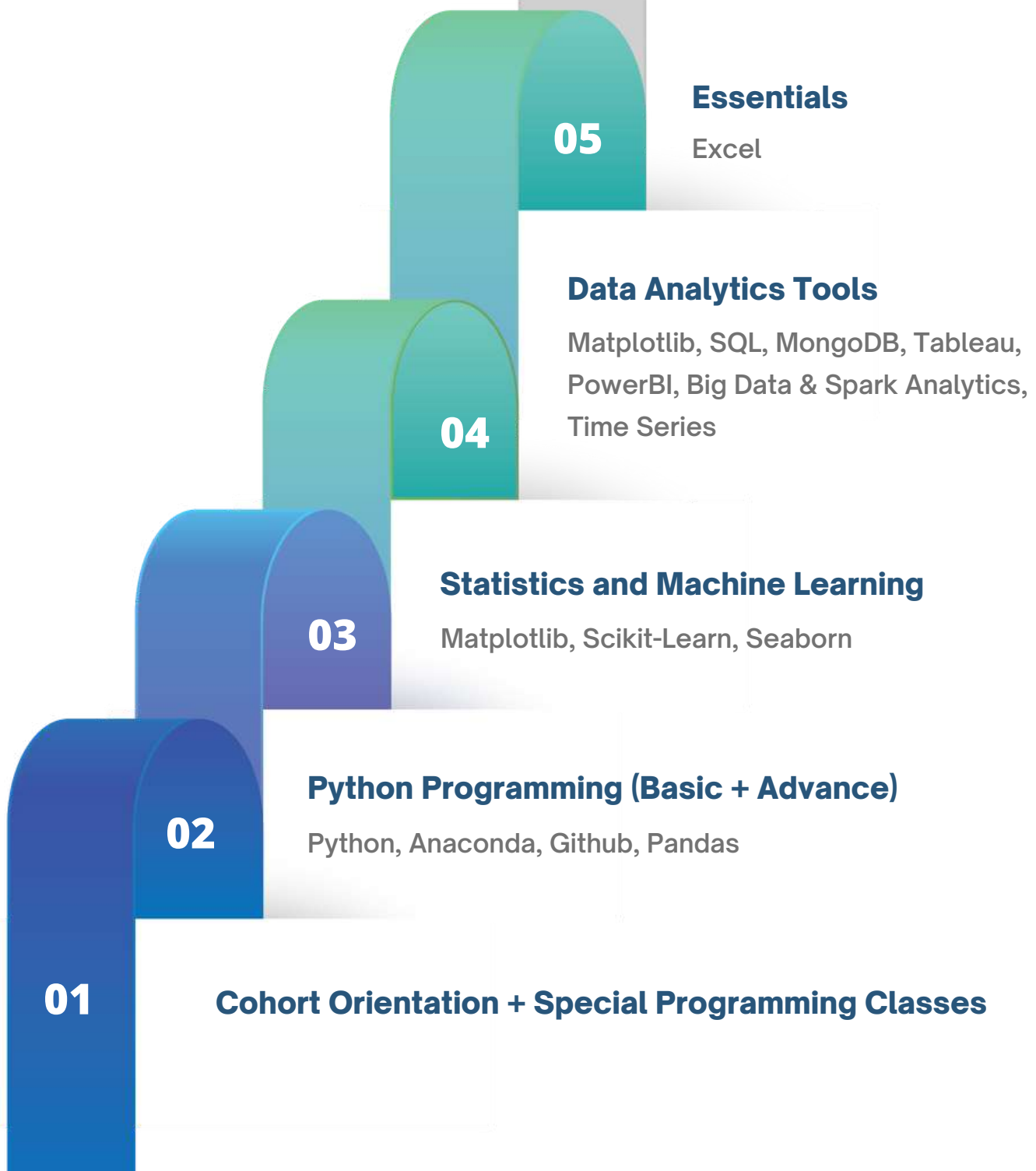
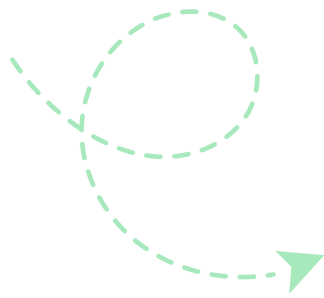
*World's leading certifications*



## IBM Course Certificate

- ✓ Obtain an internationally recognized certificate through training.
- ✓ Validate your Data Science skills with IBM Certificate
- ✓ Enhance your IT profile with IBM's certification

# Learning Path



# Career Service



## **Get 1 year of Job and Placement support**

Unleash your career potential with 1 year of unlimited job access, interview support, and profile review.

## **Get 3 mock interviews with industry leaders**

Master the art of data science interviews and stay ahead of the curve with mockups and industry insights



## **Resume build up session**

Craft a powerful resume showcasing your expertise in data science and AI to stand out from the competition.













## **Get 5-8 interview calls**

Receive 5-8 interview calls from a diverse pool of interested employers/recruiters.



# Others Vs Learnbay



Benefits		
	Learnbay	Others
Guaranteed Interview Calls		
Industry capstone project certificate from IBM		
Domain specialized programs for professionals		
100% live interactive sessions with industry experts		
On demand video call with industry experts		
Personalized Resume Review Session		

# Program Syllabus

## Preparatory Session

Module 0 (08 hours)

### Preparatory Session

- A brief introduction to tools related to data
- Learn about particular real-time projects and Capstone projects
- Data and its impact on career opportunities
- Fundamental relevance of projects using data
- Role of data in businesses
- Significance of data in decision-making
- Scope of data in research and development
- Utilizing data, to enhance industrial operations and management
- Data in performance evaluation
- Data in customer segmentation

### Fundamentals of Statistics

- Mean, Median, Mode
- Standard Deviation, Average.
- Probability, permutations, and combinations
- Introduction to Linear Algebra

### Fundamentals of programming

- Types of code editors in python
- Introduction to Anaconda & Jupyter notebook
- Flavors of python
- Introduction to Git, GitHub
- Python Fundamentals
- Source code vs Byte code vs Machine code
- Compiler & Interpreter
- Memory Management in Python

### Tools covered





### Python Programming

### Module 1 (50 hours)

#### Programming Basics & Environment Setup

- Installing Anaconda, Anaconda Basics and Introduction
- Get familiar with version control, Git and GitHub.
- Basic Github Commands.
- Introduction to Jupyter Notebook environment. Basics Jupyter notebook Commands.
- Programming language basics

#### Strings, Decisions & Loop Control

- Working With Numbers, Booleans
- and Strings, String types and formatting, String operations
- Simple if Statement, if-else Statement
- if-elif Statement.
- Introduction to while Loops, for Loops, Using continue and break

#### Class Hands-on:

- 6 programs/coding exercise on string, loop and conditions in classroom

#### Functions And Modules

- Introduction To Functions
- Defining & Calling Functions
- Functions With Multiple Arguments

#### Python Programming Overview

- Python Overview
- Python 2.7 vs Python 3
- Writing your First Python Program
- Lines and Indentation, Python Identifiers
- Various Operators and Operators Precedence
- Getting input from User, Comments, Multi line Comments

#### Python Data Types

- List, Tuples, Dictionaries
- Python Lists, Tuples, Dictionaries Accessing Values, Basic Operations
- Indexing, Slicing, and Matrixes
- Built-in Functions & Methods
- Exercises on List, Tuples And Dictionary

#### Functions And Modules

- Anonymous Functions - Lambda
- Using Built-In Modules, User-Defined Modules, Module Namespaces,
- Iterators And Generators

#### Class Hands-on:

8+ Programs to be covered in class of functions, Lambda, modules, Generators and Packages.

### Python Programming

### Module 1 (50 hours)

#### File I/O And Exceptional Handling and Regular Expression

- Opening and Closing Files
- open Function, file Object Attributes
- close() Method, Read, write, seek.
- Exception Handling, try-finally Clause
- Raising an Exceptions, User-Defined Exceptions
- Regular Expression- Search and Replace
- Regular Expression Modifiers
- Regular Expression Patterns

#### Class hands-on :

- 10+ Programs to be covered in class from File IO, Reg-ex and exception handling.

#### Data Analysis Using Pandas

- Pandas : Introduction to Pandas
- Importing data into Python
- Pandas Data Frames, Indexing Data Frames ,Basic Operations With Data frame, Renaming Columns, Subsetting and filtering a data frame.

#### Data Analysis Using Numpy

- Introduction to Numpy. Array Creation, Printing Arrays, Basic Operation - Indexing, Slicing and Iterating, Shape Manipulation - Changing shape, stacking and splitting of array
- Vector stacking, Broadcasting with Numpy, Numpy for Statistical Operation

#### Assignment 1 (Week 2):

10 Coding exercises on Python Basics - Variables, Operators, Strings, Loops, Control Statement

#### Assignment 2 (Week 3):

10 Python programs and practice set on List, Tuples, Dictionaries & Matrices operations

#### Assignment 3 (Week 4):

10 Coding exercises on Functions, Lambda, Input-Output, File and Regular Expression

### Python Programming

#### Module - 1 (50 hours)

##### Data Visualization using Matplotlib

- **Matplotlib:** Introduction, plot(), Controlling Line Properties, Subplot with Functional Method, Multiple Plot, Working with Multiple Figures, Histograms

##### Data Visualization using Seaborn

- **Seaborn:** Intro to Seaborn And Visualizing statistical relationships , Import and Prepare data. Plotting with categorical data and Visualizing linear relationships.
- Seaborn Exercise

### Case Study

**3 Case Study on Numpy, Pandas, Matplotlib**

**1 Case Study on Pandas And Seaborn**

#### Assessment Test in Python :

- 2 hour of Assesment Test in Python ( Coding & Objective Questions )

Real time Use cases in Python to be Covered in Class with 5 assignments



### Statistics

### Module - 1 (30 hours)

#### Fundamentals of Math and Probability

- Probability distributed function & cumulative distribution function. Conditional Probability, Baye's Theorem
- Problem solving for probability assignments
- Random Experiments, Mutually Exclusive Events, Joint Events, Dependent & Independent Events

#### Introduction to Statistics, Statistical Thinking

- Variable and its types
- Quantitative, Categorical, Discrete, Continuous,
- \*all with examples

#### Five Point Summary and Box Plot

- Outliers, Causes of Outliers, How to treat Outliers, I-QR Method and Z-Score Method

#### Inferential Statistics

- Central Limit Theorem
- Point estimate and Interval estimate
- Creating confidence interval for population parameter

#### All about Population & Sample

- Population vs Sample, Sample Size
- Simple Random Sampling, Systematic Sampling, Cluster Sampling, Stratified Sampling, Convenience Sampling, Quota Sampling, Snowball Sampling and Judgement Sampling

#### Descriptive Statistics

- Measures of Central Tendency – Mean, Median and Mode
- Measures of Dispersion – Standard Deviation, Variance, Range, IQR (Inter-Quartile Range)
- Measure of Symmetry/ Shape – Skewness and Kurtosis

#### Inferential Statistics

- Characteristics of Z-distribution and T-Distribution.
- Type of test and rejection region.
- Type of errors in Hypothesis Testing

### Statistics

### Module - 1 (30 hours)

#### Hypothesis Testing

- Type of test and Rejection Region
- Type o errors-Type 1 Errors, Type 2 Errors. P value method, Z score Method. The Chi-Square Test of Independence.
- Regression. Factorial Analysis of Variance. Pearson Correlation Coefficients in Depth. Statistical Significance
- Null and Alternative Hypothesis One-tailed and Two-tailed Tests, Critical Value, Rejection region, Inference based on Critical Value
- **Binomial Distribution:** Assumptions of Binomial Distribution, Normal Distribution, Properties of Normal Distribution, Z table, Empirical Rule of Normal Distribution & Central Limit Theorem and its Applications

#### Data Processing & Exploratory Data Analysis

- What is Data Wrangling
- Data Pre-processing and cleaning?
- How to Restructure the data?
- What is Data Integration and Transformation

#### Linear Algebra

- Dot Product, Projecting Point on Axis.
- Matrices in Python, Element Indexing, Square Matrix, Triangular Matrix, Diagonal Matrix, Identity Matrix, Addition of Matrices, Scalar Multiplication, Matrix Multiplication, Matrix Transpose, Determinant, Trace
- T-Test, Analysis of variance (ANOVA), and Analysis of Covariance (ANCOVA) Regression analysis in ANOVA

#### Class Hands-on:

- Problem solving for C.L.T Problem solving Hypothesis Testing Problem solving for T-test, Z-score test Case study and model run for ANOVA, ANCOVA



### Statistics

#### Module - 1 (30 hours)

##### EDA

- Finding and Dealing with Missing Values.
- What are Outliers?
- Using Z-scores to Find Outliers.
- Bivariate Analysis, Scatter Plots and Heatmaps.
- Introduction to Multivariate Analysis

Note: Problem-Solving Techniques and Case Studies using Statistics will be covered in class from week 2

**Statistics Assignments : Total 4 practice set and Assignments from Statistics**

### Machine Learning

### Module - 2 (40 hours)

#### Machine Learning Introduction

- Definition, Examples, Importance of Machine Learning
- Definition of ML Elements: Algorithm, Model, Predictor Variable, Response Variable, Training - Test Split, Steps in Machine Learning,
- ML Models Type: Supervised Learning, Unsupervised Learning and Reinforcement Learning

#### Data Preprocessing

- Encoding the data: Definition, Methods: OneHot Encoding, Mean Encoding, Label Encoding, Target Guided Ordinal Encoding

#### Evaluation Metrics for Classification model

- Confusion Matrix, Accuracy, Misclassification, TPR, FPR, TNR, Precision, Recall, F1 Score, ROC Curve, and AUC. Using Python library Sklearn to create the Logistic Regression Model and evaluate the model created

#### Data Preprocessing

- Types of Missing values (MCAR, MAR, MNAR) , Methods to handle missing values
- Outliers, Methods to handle outliers: IQR Method, Z Method
- Feature Scaling: Definition , Methods: Absolute Maximum Scaling, Min-Max Scaler , Normalization, Standardization, Robust Scaling

#### Logistic Regression Model

- Definition. Why is it called the "Regression model"?
- Sigmoid Function, Transformation & Graph of Sigmoid Function

#### K Nearest Neighbours Model

- Definition, Steps in KNN Model, Types of Distance: Manhattan Distance, Euclidean Distance, 'Lazy Learner Model'.
- Confusion Matrix of Multi Class Classification
- Using Python library Sklearn to create the K Nearest Neighbours Model and evaluate the model

### Machine Learning

### Module - 2 (40 hours)

#### Decision Tree Model

- Definition, Basic Terminologies, Tree Splitting Constraints, Splitting Algorithms:
- CART, C4.5, ID3, CHAID
- Splitting Methods:
- GINI, Entropy, Chi-Square, and Reduction in Variance
- Using Python library Sklearn to create the Decision Tree Model and evaluate the model created

#### Hyperparameter Tuning

- GridSearchCV, Variable Importance.
- Using Python library Sklearn to create the Random Forest Model and evaluate the model created.
- Use cases

#### Random Forest Model

- Ensemble Techniques: Bagging/bootstrapping & Boosting.
- Definition of Random Forest, OOB Score
- K-Fold Cross-Validation

#### Naive Baye's Model

- Definition, Advantages, Baye's Theorem Applicability, Disadvantages of Naive Baye's Model, Laplace's Correction, Types of Classifiers: Gaussian, Multinomial and Bernoulli
- Using Python library Sklearn to create the Naive Baye's Model and evaluate the model created

### Case Study

- **Business Case Study for Kart Model**
- **Business Case Study for Random Forest**
- **Business Case Study for SVM**
- **To classify an email as spam or not spam using logistic Regression.**
- **Application of Linear Regression for Housing Price Prediction**

### Machine Learning

### Module - 2 (40 hours)

#### K Means and Hierarchical Clustering

- Definition of Clustering, Use cases of Clustering
- K Means Clustering Algorithm, Assumptions of K Means Clustering
- Sum of Squares Curve or Elbow Curve

#### Principal Component Analysis(PCA)

- Definition, Curse of Dimensionality, Dimensionality Reduction Technique, When to use PCA,
- Use Cases
- Steps in PCA, EigenValues and EigenVectors, Scree Plot.
- Using Python library Sklearn to create Principal Components

#### Hierarchical Clustering

- Dendrogram, Agglomerative Clustering, Divisive Clustering, Comparison of K Means Clustering and Hierarchical Clustering
- Using Python library Sklearn to create and evaluate the clustering model

#### Support Vector Machine(SVM)

- Model: Definition, Use Cases, Kernel Function, Aim of Support Vectors, Hyperplane, Gamma Value, Regularization Parameter
- Using Python library Sklearn to create and evaluate the SVM Model

#### Summary of all Machine Learning Models and Discussion about the Capstone Project

Note : All Machine Learning Algorithms are covered in depth with real time case studies for each algorithm. Once 60% of ML is completed, Capstone Project will be released for the batch.

## CASE STUDY

### Module - 2 (40 hours)

- Recommendation Engine for e-commerce/retail chain
- Twitter data analysis using NLP





### SQL

### Module - 1 (14 hours)

#### SQL and RDBMS

- RDBMS And SQL Operations.
- Single Table Queries - SELECT, WHERE,
- ORDER BY, Distinct, And, OR
- Multiple Table Queries: INNER, SELF,
- CROSS, and OUTER, Join, Left Join, Right
- Join, Full Join, Union

#### NoSQL, HBase & MongoDB

- NoSQL Databases
- Introduction to HBase
- HBase Architecture, HBase
- Components, Storage Model of HBase
- HBase vs RDBMS
- Introduction to Mongo DB, CRUD
- Advantages of MongoDB over RDBMS

#### Programming with SQL

- Mathematical Functions
- Variables
- Conditional Logic
- Loops
- Custom Functions
- Grouping and Ordering

#### Advance SQL

- Advance SQL Operations
- Data Aggregations and summarizing the data
- Ranking Functions: Top-N Analysis
- Advanced SQL Queries for Analytics

#### JSON Data & CRUD

- Basics and CRUD Operation
- Databases, Collection & Documents
- Shell & MongoDB drivers
- What is JSON Data
- Create, Read, Update, Delete
- Finding, Deleting, Updating, Inserting Elements
- Working with Arrays
- Understanding Schemas and Relations

#### Programming with SQL

- Partitioning
- Filtering Data
- Subqueries

## SQL

### Module - 1 (14 hours)

#### Assignments

- Working with multiple tables
- Practice Joins, Grouping and Subqueries
- Using GROUP BY and HAVING Clauses
- Practice Aggregation Queries

### MongoDB

### Module - 2 (14 hours)

#### Introduction to MongoDB

- What is MongoDB
- Characteristics and Features
- MongoDB Ecosystem
- Installation process
- Connecting to MongoDB database
- Introduction to NoSQL
- Introduction of MongoDB module
- What are Object Ids in MongoDB

#### Assignment

- Obtain the data in the format you want by formulating queries that are both effective and high-performing.

#### MongoDB (Advance)

- MongoDB Use cases
- MongoDB Structures
- MongoDB Shell vs MongoDB Server
- Data Formats in MongoDB
- MongoDB Aggregation Framework
- Aggregating Documents
- Working with MongoDB Compass & exploring data visually
- Understanding Create, Read, Update, Delete
- Schemas & Relations
- Document Structure
- Working with Numeric Data
- Working on Scheme Designing

#### Tools covered



### Tableau

### Module - 3 (14 hours)

#### Introduction to Tableau

- Connecting to data source
- Creating dashboard pages
- How to create calculated columns
- Different charts

#### Dashboard and Stories

- Working in Views with Dashboards and Stories
- Working with Sheets
- Fitting Sheets
- Legends and Quick Filters
- Tiled and Floating Layouts, Floating Objects

#### Hands-on Assignments

- Connecting data source and data cleansing
- Working with various charts
- Deployment of Predictive model in visualization

#### Visual Analytics

- Getting Started With Visual Analytics
- Sorting and grouping
- Working with sets, set action
- Filters: Ways to filter, Interactive Filters
- Forecasting and Clustering

#### Tableau (Advance)

- Mapping
- Coordinate points
- Plotting Latitude and Longitude
- Custom Geocoding
- Polygon Maps
- WMS and Background Image

#### Tools covered



### PowerBI

### Module - 4 (14 hours)

#### Getting Started With Power BI

- Installing Power BI Desktop and Connecting to Data
- Overview of the Workflow in Power BI Desktop
- Introducing the Different Views of the Data Mode
- Query Editor Interface
- Working on Data Model

#### Assignments

- Create Bar charts
- Create Pie charts
- Create Tree maps
- Create Donut Charts
- Create Waterfall Diagrams
- Creating Table Calculations for Gender

#### Programming with Power BI

- Working with Time Series
- Understanding aggregation and granularity
- Filters and Slicers in Power BI Maps
- Scatterplots and BI Reports
- Connecting Dataset with Power BI  
Creating a Customer Segmentation Dashboard  
Analyzing the Customer Segmentation Dashboard

#### Tools covered





### Big Data & Sparks Analytics Module - 5 (16 hours)

#### Introduction To Hadoop & Big Data

- Distributed Architecture - A Brief Overview. Understanding Big Data
- Introduction To Hadoop, Hadoop Architecture
- HDFS, Overview of MapReduce Framework
- Hadoop Master: Slave Architecture
- MapReduce Architecture
- Use cases of MapReduce

#### Hands-on

- Map reduce Use Case 1: Youtube data analysis
- Map reduce Use Case 2: Uber data analytics
- Spark RDD programming
- Spark SQL and Data frame programming

#### What is Spark

- Introduction to Spark RDD
- Introduction to Spark SQL and Data frames
- Using R-Spark for machine learning
- Hands-on:
- Installation and configuration of Spark
- Using R-Spark for machine learning programming

#### Tools covered



### Time Series

#### Module - 6 (14 hours)

##### Introduction to Time Series Forecasting

- Basics of Time Series Analysis and Forecasting
- Method Selection in Forecasting
- Moving Average (MA) Forecast Example
- Different Components of Time Series Data
- Log Based Differencing, Linear Regression for Detrending

##### Introduction to ARIMA Models

- ARIMA Model Calculations, Manual ARIMA Parameter Selection
- ARIMA with Explanatory Variables
- Understanding Multivariate Time Series and their Structure
- Checking for Stationarity and Differencing the MTS

### CASE STUDY

- **Time series classification of smartphone data to predict user behavior**
- **Performing Time Series Analysis on Stock Prices**
- **Time series forecasting of sales data**

Note: All the assignments and case studies will be covered in-depth with real-time examples

### Excel

### Essentials (30 hours)

#### Getting started with Excel

- Creating a New Workbook
- Navigating in Excel
- Moving the Cell Pointer
- Using Excel Menus
- Creating Headers, Footers, and Page Numbers
- Adjusting Page Margins and Orientation
- Adding Print Titles and Gridlines, rows to repeat at top of each page
- Formatting Fonts & Values
- Adjusting Row Height and Column Width
- Changing Cell Alignment
- Adding Borders
- Applying Colors and Patterns
- Using the Format Painter
- Merging Cells, Rotating Text
- Using Auto Fill

#### Switching Between Sheets in a Workbook

- Inserting and Deleting Worksheets
- Renaming and Moving Worksheets
- Protecting a Workbook
- Hiding Columns, Rows and Sheets
- Splitting and Freezing a Window

#### Using Excel Toolbars: Hiding, Displaying, and Moving Toolbars

- Entering Values in a Worksheet and Selecting a Cell Range
- Previewing and Printing a Worksheet
- Saving a Workbook & Re-opening a saved workbook

#### Switching Between Sheets in a Workbook

- Splitting and Freezing a Window
- Inserting Page Breaks
- Advanced Printing Options

#### Entering Date Values and using AutoComplete

- Editing, Clearing, and Replacing Cell Contents Cutting,
- Copying, and Pasting Cells Moving and Copying Cells with Drag and Drop
- Collecting and Pasting Multiple Items
- Using the Paste Special Command

### Excel

### Essentials (30 hours)

#### Inserting and Deleting Cells, Rows, and Columns

- Using Undo, Redo, and Repeat
- Checking Your Spelling
- Finding and Replacing Information
- Inserting Cell Comments
- Creating a basic Formula
- Cell Referencing
- Calculating Value Totals with AutoSum
- Editing & Copying Formulas
- Fixing Errors in Your Formulas
- Formulas with Several Operators
- Cell Ranges
- Conditional Formatting

#### Working with the Forms Menu

- Sorting, Subtotaling & Filtering Data
- Copy & Paste Filtered Records
- Using Data Validation

#### Changing a Chart Type and Working with Pie Charts

- Adding Titles, Gridlines, and a Data Table
- Formatting a Data Series and Chart Axis
- Using Fill Effects

#### Using Excel Toolbars: Hiding, Displaying, and Moving Toolbars

- Entering Values in a Worksheet and Selecting a Cell Range
- Previewing and Printing a Worksheet
- Saving a Workbook & Re-opening a saved workbook

#### Creating & Working with Charts

- Creating a Chart
- Moving and Resizing a Chart
- Formatting and Editing Objects in a Chart
- Changing a Chart's Source Data

#### Data Analysis & Pivot Tables

- Creating a PivotTable
- Specifying the Data a PivotTable Analyzes
- Changing a PivotTable's Calculation

### Excel

### Essentials (30 hours)

#### Data Analysis & Pivot Tables

- Creating a PivotTable
- Specifying the Data a PivotTable Analyzes
- Changing a PivotTable's Calculation
- Selecting What Appears in a PivotTable
- Grouping Dates in a PivotTable
- Updating a PivotTable
- Formatting and Charting a PivotTable
- Automating Tasks with Macros
- Recording a Macro
- Playing a Macro and Assigning a Macro
- Shortcut Key

# Real-time Projects

1

Domain: BFSI



**Learn and develop classification techniques for the digital transformation of banking**

JPMorgan offers tax-friendly insurance choices. You can help them forecast insurance premiums. Targeted marketing using your random forest algorithm skills can help obtain better premium values.

Data Analytics, Matplotlib, Logical Regression

2

Domain: Media



**Building a content recommendation model on the basis of regional viewer categorization**

Netflix is a global entertainment video streaming site. They offer content in various regional languages. Build a local recommendation engine for Netflix customers residing in south Bangalore on their weekend and weekdays activities, utilizing NLP.

Data Analytics, Matplotlib, Logical Regression

3

Domain: Transportation



**Reduction of waiting time via a highly precise forecasting model**

Make a demand forecasting model based on specific time period rider demands. Such a model will help both riders and cab drivers to ensure the least possible waiting time. You can include measures like latitude and longitude identification.

Machine Learning, Hadoop, Time Series Analysis

4

Domain: Oil, Gas and energy



**Understanding in-depth about logging while drilling (LWD) technique**

Saudi Aramco company is working on the development of high-efficiency drilling models. Use the bright sides of big data analytics to identify the most cost-effective and highly productive drilling sites.

Matplotlib in Python, Big Data

# Real-time Projects

5

**Domain: HR**



## Career progression planning of employees with workforce defections & efficiency

IBM intends to boost its HR department by identifying employees' masked inconsistency. They need models to identify the graphical variations in their 14000+ employees' performances. Help them build models with your regressions and other ML abilities.

Machine Learning, Python, SQL, PySpark

6

**Domain: Marketing**



## Descriptive study of trends and irregularities with prediction analysis for conversion

Swiggy seeks a broad marketing campaign. But they need automated keyword generation tools & proper message preparation and delivery of the same to the right audience at the right time. Help them with text analytics and NLP-based keyword research.

Exploratory Data Analysis, Big Data, NLP

7

**Domain: Sales**



## Forecasting future sales with trends and price maximization

BMW customers can sell old vehicles, but rivals provide superior resale prices. BMW's data science-powered software will deliver the greatest market value for used vehicles based on Km travelled, daily price changes, production dates, etc. Such tasks build analytical abilities.

Scikit-learn, XG Boos, Customer Segmentation

8

**Domain: Healthcare**



## Understanding covid-19 cases and fatality rate by time series forecasting

Samsung will launch a new healthcare app soon. The key goal of this app is an accurate human activity tracking and providing relevant health-related recommendations. Continuous analysis of a massive amount of mobile data is required for such an app.

Supervised Machine Learning, Python (Pandas Library)





## Contact Us

#1090

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