
A Steps towards the bright future

Learnomate Technologies is the Information technology company which provide training on different IT Technologies.

A **data Science** is a professional who collects, processes, and analyzes data to help organizations make informed decisions. They play a crucial role in extracting meaningful insights from large sets of data, helping businesses identify trends, patterns, and areas for improvement.

COURSE OBJECTIVES

- Foundational Knowledge
- Data Collection and Cleaning
- Data Analysis Techniques
- Data Visualization
- Database Management
- Continuous Learning

COURSE SYLLABUS

Module 1: EXCEL

- Basic Excel Functions
- Data Entry and formatting
- Formulas and Functions
- Data Tables and ranges
- Charts and Graphs
- Pivot tables and Pivot charts
- Data Validation
- Conditional Formatting
- Filtering and Sorting
- Advanced formulas
- Data Analysis Tools



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- Data Import and Export
- Excel Tables
- Macros
- VBA

Module 2: SQL

- Introduction
- SQL Commands : DDL, DML, DCL, TCL
- Aggregate Function
- Group By
- Having Clause
- Joins
- Sub-queries

Module 3: Data Analysis with Python

- Python Basics, Syntax, Variables, Operators
- Data Types
- Iterative Loops and Conditional Statements
- Functions
- OOPS
- File Handling
- Exception Handling
- Connection between Jupyter and database
- Numpy
- Pandas
- Probability and Statistics
- Data Cleaning
- Data Analysis
- Data Visualization



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- Graphical representation of data
- Line plot
- Scatter plot
- Histogram
- Bar plot
- Box plot

Module 4: Statistics

- Measures of central tendency (mean, median, mode)
- Measures of dispersion (range, variance, standard deviation)
- Quartiles and percentiles
- Probability theory
- Probability distributions (normal, binomial, Poisson, etc.)
- Random variables
- Probability laws and rules
- Bayes' theorem

Module 5: Power BI

- Data Connections and Data Transformation
- Importing data from various sources
- Data cleaning and transformation
- Data Visualization
- Building interactive reports and dashboards
- Using various visualization types (tables, charts, maps, etc.)
- Customizing the appearance and formatting of visuals
- DAX (Data Analysis Expressions)
- Writing and understanding DAX formulas for calculated columns and measures
- Aggregation functions (SUM, AVERAGE, COUNT, etc.) in DAX



Module 6: Machine Learning

- Introduction to Machine Learning
- Supervised Learning:
 - Regression
 - Linear Regression
 - Multiple and Polynomial regression
 - Regularization, Ridge and Lasso regression
 - Classification
 - Logistic Regression
 - K Nearest Neighbours
 - Decision Trees
 - Naïve Bayes
 - Ensemble Techniques: Random Forests, Gradient boosting machines
- Unsupervised Learning:
 - Clustering

Module 7: AI & Deep Learning

- Introduction to Deep Learning and Neural Networks
- Artificial Neural Networks
 - Neurons
 - Layers
 - Activation Functions
- convolutional neural networks
 - Convolution Operation
 - Pooling
 - Padding
 - Strides
- Recurrent Neural Networks



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STUDY MATERIAL

- **Topic wise Assignments-** Will give the topic Wise or Weekly assignments that cover all practical aspects of training.
- **Notes-** We Provide you notes on every module of this course.
- **Projects -** The Project tests you on all necessary concepts of this course

COURSE DETAILS

- **Training Duration: 5 Months**
- **Online Training available**



TRAINING HIGHLIGHTS

- Recording Access shared to students on Learnomate App
- Professional Resume building by Industrial working mentors
- Placement assistance/Job requirement notification support/HR contacts
- Training Certificate: Receive a recognized certificate upon course completion
- LinkedIn, Naukri.com Profile: Enhance your online presence with professionally curated profiles.
- Flexible Learning Options: Choose between offline and online training to suit your schedule.
- Interview Preparation, Mock Interviews: Nail your interviews with our tailored preparation and mock interview sessions
- Real-time Scenarios Explained: Learn through practical examples to master real-world applications.
- **?** Doubt Sessions: Clarify your doubts through dedicated doubt-clearing sessions.



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CONTACT DETAILS

If you required any further information, please fill free to contact us.

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