Introduction to Data Science

Table of **Contents:**

Program **Overview:**

Learn the fundamentals of data extraction using Microsoft Excel and SQL by enrolling in our Introduction to Data Science course. Learn to manipulate, analyze, and visualize data, turning it into actionable insights. This course offers useful tools and real-world applications, making it ideal for the newcomer or those looking to improve their data skills.

Program **Features:**

> Self-Paced videos

> Live Classes & Doubt Clearing Sessions

> Industry Based Case Studies

> Assignments & Quizzes

> Project Assessment

Mode of **Delivery**

> Self-Paced Videos - **17 Hours**

> Live Lectures - **8 Hours**

> Short Learning Material - **2 Hours**

> Capstone Project/Case Study - **2 Hours**

> Assessments & Assignments - **1 Hour**

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Instructor **Details**
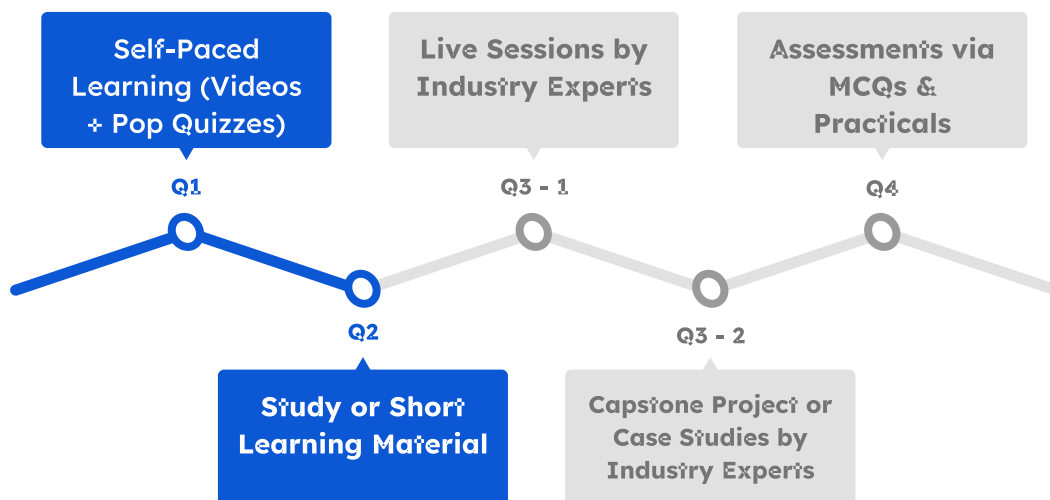
Ambarish Tarte
(Microsoft Business Partner)

With over 15+ years of experience Boosting productivity for executives and teams, this certified trainer helps leaders and employees work smarter, not harder, by leveraging Microsoft applications' powerful features through a hands-on approach.

Rocky Jagtiani
(Corporate Trainer)

With 18+ years of experience, Mr. Jagtani has trained over 18,000 professionals in core programming, Python, Data Science, ML, and AI. A skilled trainer and content developer in Databases and Data Science, Mr. Jagtani is passionate about ML/NLP and IT recruitment.

Course **Structure**
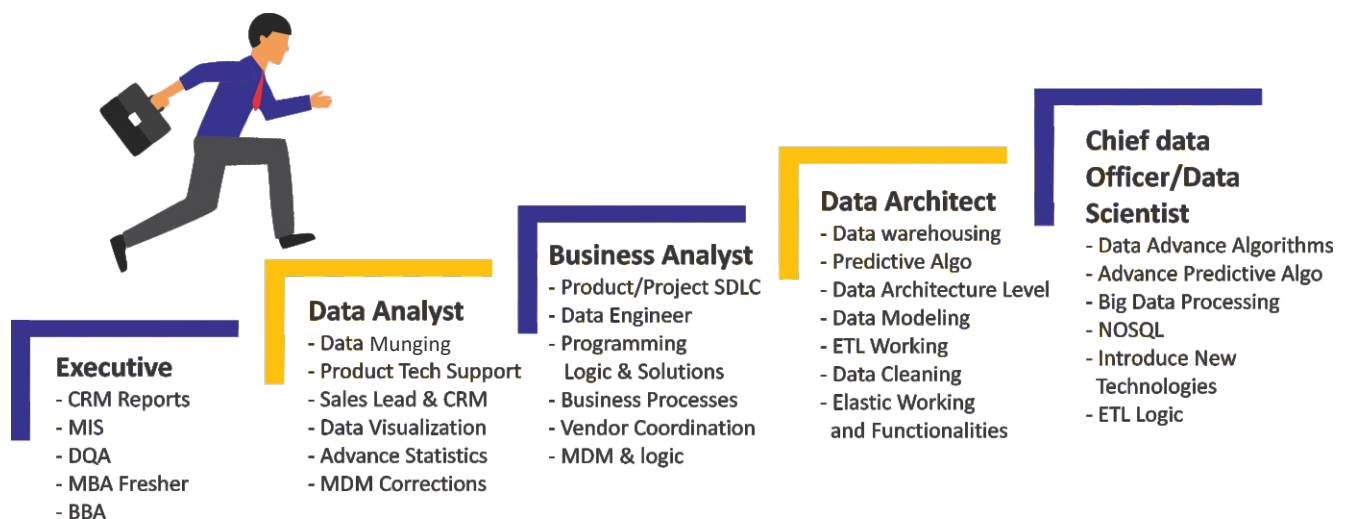
Self-Paced Learning (Videos + Pop Quizzes)

Live Sessions by Industry Experts

Assessments via MCQs & Practicals

Q1

Q3 - 1

Q4

Q2

Q3 - 2

Study or Short Learning Material

Capstone Project or Case Studies by Industry Experts

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Program **Ideal For**

> Students from IT/CS Background
> Students aspiring to build a career in data analytics and data science
> Students aspiring to build a career in Database management
> Anyone wanting to learn analytics/MIS

Learning **Outcomes**

> Hands-on experience in SQL Python
> Programming Excel and Advanced Excel
> Machine Learning
> Supervised Learning
> Unsupervised Learning
> Dashboard creation with PowerBI
> Exploratory data analysis with Numpy, Pandas
> Extract Transform
> Load with Pandas

Your **Pathway To Success!**

Executive
- CRM Reports
- MIS
- DQA
- MBA Fresher
- BBA

Data Analyst
- Data Munging
- Product Tech Support
- Sales Lead & CRM
- Data Visualization
- Advance Statistics
- MDM Corrections

Business Analyst
- Product/Project SDLC
- Data Engineer
- Programming
  Logic & Solutions
- Business Processes
- Vendor Coordination
- MDM & logic

Data Architect
- Data warehousing
- Predictive Algo
- Data Architecture Level
- Data Modeling
- ETL Working
- Data Cleaning
- Elastic Working
  and Functionalities

Chief data Officer/Data Scientist
- Data Advance Algorithms
- Advance Predictive Algo
- Big Data Processing
- NOSQL
- Introduce New
  Technologies
- ETL Logic

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Course **Details**

Week 1 :

1. Introduction to SQL
- What is data and information?
- What is a Database?
- Introduction to DBMS, Introduction to RDBMS
- What is SQL? Data Anomalies
- Normalization and its Types

2. Data Definition Language
- Data types, expressions, operators
- Constraints and their types
- Data Definition Language(DDL)
- Creation of table, Dropping a table
- Working with different options (Alter)

3. Data Manipulation Language
- INSERT command, UPDATE command
- DELETE command, DML using Constraints
- TRUNCATE command

4. Data Query Language / Working with SQL
- SELECT command
- WHERE clause search condition
- Arithmetic, Comparison and Logical operator
- Range operator, List operator, Like operator
- Using ORDER BY, DISTINCT and TOP
- Using IS NULL and IS NOT NULL
- Various other clauses

5. Live Session: Doubt clearing session the learnings from the self paced videos

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Week 2 :

1. Advanced SQL Search
- String Function, Math Function
- Date Function, Aggregate Function
- GROUP BY clause with HAVING

2. Joins
- Introduction to Joins, Types of Joins

3. Sub Queries
- Introduction Types of Sub-queries
- Search Condition, Comparison Operators, IN

4. Live Session: Doubt clearing session the learnings from the self paced videos.

5. SQL Assessment

Week 3 :

1. Introduction to Excel
- Exploring the Microsoft Excel Window
- Exploring the File Tab, Status Bar, Mini ToolBar, Quick Access Toolbar
- Introduction to Ribbons, Exploring Excel Workbook Window
- AutoFill Option, Using the Sort Feature, Using the Filter Feature
- Using the Group Feature, Conditional Formatting

2. Data Manipulation and Arithmetic Functions
- Cell Referencing, Processing Data Using Formulas
- Advanced Filters, Defined Name, Data Validation
- AutoSum Functions, Date Functions, Text Function

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3. Logical and Reference Functions
> Logical Functions
> Reference Functions
> Math Functions

4. Pivot Table
> Create PivotTables, Choosing Fields
> PivotTable Layout, Filtering PivotTables
> Modifying PivotTable, Data PivotCharts

5. Live Session: Doubt clearing session the learnings from the self paced videos.

Week 4 :

1. Data Visualization
> Chart Types, Creating Charts, Identifying Chart Components
> Customizing Charts, Using Chart Templates

2. Analyzing Data
> Charting Data Fluctuation using Sparkline
> Charting Data Trends using Trendline
> Performing What-If Analysis using Scenario Manager
> Performing What-If Analysis using Goal Seek and Data Table
> Using Solver Tool, Forecast Sheet

3. Collaborating with Other Users
> Loading Data from Various Sources
> Providing Password Protection to a File, Sharing Data
> Tracking Changes, Comparing and Merging Data
> Applying Digital Signature

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4. Automating Tasks with Macros
  › Recording a Task, Enabling the Developer Tab
  › Executing and Deleting a Recorded Task
  › Customizing the Automated Tasks

5. Live Session: Doubt clearing session the learnings from the self paced videos.

6. Excel Assessment

Week 5 :

1. **Case Study on HR Management and Attendance Analysis**
2. **Case Study based Assessment**

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Scan this QR code with your smartphone and discover more information about the program

FOR ENQUIRIES:
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