



# ADVANCE CERTIFICATION IN DATA ANALYSIS

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**DATA ANALYSIS** skills and take your  
career to the next level!

# ADVANCE CERTIFICATION IN DATA ANALYSIS

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This certification course has been designed by industry experts to help you prepare for the Industry projects. Through this training, you will gain knowledge in advanced data concepts, data analysis concepts, ELT concepts, Cloud concepts for data, data visualization concepts. You will also receive course material and assignments that will help you for hands-on. At the end of the course we will help students with capstone project.

## JOB

### 1.3 Million Job Postings

There is a global estimate of 1.3 million job postings for Data Analyst and Data Engineering by 2025

## Growth

### Growing Microsoft Azure Industry

40% CAGR in the global Data Science industry

## Demand

### High Demand

By 2023, India and US will face a demand supply gap of 300,000 Data Analyst and Data Engineers

# About Program

This Data Analyst Course will provide you with definitive training in Administration, implementation, Analysis and monitoring of Data . As a part of the training, you will get hands-on experience by working on real-world projects for building scalable BI, Data Analysis and Data Engineering , and become industry-ready.

## Key Highlights

- ✓ 6 Months Instructor-led virtual Training
- ✓ Recording would be provided of all sessions
- ✓ Project / Lab based Training
- ✓ Certification Assistance will be provided
- ✓ Industry experience trainer will conduct the training
- ✓ Trainer has 18+ years of industry experience

# Program Curriculum

## Module 1

### Introduction to Cloud Technology

- Introduction to cloud computing
- What is Microsoft Azure?
- Microsoft Azure Services
- Azure Portal
- Azure CLI
- Azure PowerShell

## Module 2

### Manage Microsoft Entra users and groups

- Create users and groups
- Manage user and group properties
- Manage licenses in Microsoft Entra ID
- Manage external users
- Configure self-service password reset (SSPR)
- Manage built-in Azure roles
- Assign roles at different scopes
- Interpret access assignments

## Module 3

### Concept of Data and Data Analysis

- What is Data
- Types of Data
- Structure Data
- Un-Structure Data
- Semi-Structure Data
- Data Security
- Data Backup
- Data Analysis Introduction

## Module 4

### SQL for Data Analysis

- DDL
- DML
- Data Type Concepts
- E-R Model
- Introduction of RDBMS
- Multiple DDL Commands
- Multiple DML Commands
- Multiple Data Analysis Command

## Module 5

### Data Deployment in Azure

- Azure Storage Account
- Azure SQL Server
- Azure SQL Database
- Azure Data Security
- Azure Data Backup
- Azure Storage Replication
- Data Replication Options
- Azure Import/Export Service

## Module 6

### SQL

- Join and Its Tyoe
- GroupBy
- Filtering, Sorting and calculating Data
- Subquery in SQL
- Builtin Functions
- String Function
- Data and Time Function
- Order BY
- Having Clause
- Trigger

# Program Curriculum

## Module 7

### ETL Concepts and Azure Datawarehouse

- Introduction of Datawarehouse
- Introduction of ETL
- Introduction of Azure Datawarehouse
- Introduction of ADF
- Introduction of Synape
- Concepts of Data Pipeline

## Module 8

### Python

- Basic of Python
- Python Data Structure
- Python Programming Fundamental
- Conditions and Branching Concepts
- Loops Concepts
- Function Concepts
- Object and Class concepts
- Reading Files with Open
- Writing File with Open
- Loading Data

## Module 9

### Tableau

- Introduction of Business Intelligence
- Introduction of Data Analysis
- Introduction of Data Visualization
- Data Import from Multiple Sources
- Enriching your data with business calculations
- Visualizing your data and authoring reports
- Scheduling automated refresh of your reports
- Creating dashboards based on reports
- Creating interactive dashboards
- Creating interactive Story Tellers.
- Creating custom visualizations

## Module 10

### Microsoft PowerBI

- Introduction of PowerBI
- Data collection from Data Source
- Data Cleaning Concepts
- Transforming and Load data
- Model Data
- Visualize and Analyse the data
- Enhance Report
- Identify patterns and trends
- Deploy and manage assets
- Manage Dataset

# Course Projects

Projects cover the following industries:



Retail



Social Media



Banking



Healthcare



E-Commerce



Insurance



Supply Chain

## Handling Data migration based on provided architectural requirements

The learners will create and migrate Azure Virtual Machines, creating storage accounts and application gateways for aiding Azure Migrate. They will learn how to create architecture by using the mentioned services to migrate servers.

## Building a dashboard to monitor your Data

Monitoring data is included in the project wherein the learners will build a dashboard. The learners will use multiple types of dataset and monitor an organization's dataset for future business strategy.

## Case Study 1 - Introduction to Cloud Computing

The project involves solving the issue of not wanting the corporation's confidential data on the cloud while migrating to Microsoft Azure. Here, all resources are governed and track costing and billing is performed separately.

## Case Study 2 - Microsoft Azure Storage

The project involves the learners solving latency issues, difficulty in accessing common files and tools, and easing the upload of static content to Azure Storage. The learners will also create and configure a CDN endpoint.

## Case Study 3 - Deploy Azure SQL Database

This project allows the learners to manage Azure SQL for an organization. Learner will run multiple SQL queries and perform data analysis on the dataset in Azure Environment.

## Case Study 5 - Tableau and Microsoft PowerBI

The learners will study how to successfully set up dashboard in Tableau and Microsoft Power BI. How to perform data analysis and visualize dataset in the tableau and Microsoft PowerBI.

# Contact Details

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