




skillcubator 
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Data Analytics

Training and Placement Program

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Course Description

The exponential growth in data has transformed all verticals such as finance, healthcare, manufacturing, retail, telecom, energy, etc. With the advent of huge sets of data created every second, organizations find it difficult to translate this huge amount of raw data into actionable insights.

This has eventually created a huge demand for professionals who can turn this raw data into meaningful information. In Skillcubator's Data Analysis & Analytics training program, you can complete the course with an impressive professional portfolio and technical skills needed to solve real-world data problems.

Data Analysis & Analytics training and placement program will empower you to gain the knowledge and skills required to conduct robust data analysis and analytics and help you convert large sets of raw data into meaningful information.



Key Highlights of the Program



Job-Ready Curriculum

Industry-aligned, future-focused curriculum built to prepare learners for evolving job market demands.



Career Guidance

Expert counselors for personalized counselling for career advancement and transition opportunities.



AI-Powered

Leverage artificial intelligence (AI) using no-code platforms to perform data analysis.



100% Live Interactive Learning

Live online interactive sessions led by industry experts in the field of data analytics and data science (PhDs, IIT/NIT/IIM alumni with industry experience).



Latest Data Analysis Toolkit

Learn 10+ data analysis tools, including Microsoft Excel, MySQL, PowerBI, Tableau, Jupyter, Jira, Confluence, Lucidchart, Microsoft Viso and more.



Industry-Recognized

Earn an industry-recognized Data Analyst certificate from Skillcubator, An IIBA Premium-Level Endorsed Education Provider (EEP).



Hands-On Projects

Build real-world skills through 10+ course-end projects.



Capstone Project

Demonstrate your skills through a capstone project for holistic learning.



Portfolio

Create a job-ready portfolio to share it with your prospective employer.



24*7 Support

Resolve doubts in real-time.



Learning Aids

Plenty of online quizzes, break-out sessions, and in-class exercises during the live sessions.



Flexible Payment Plans

Affordable and convenient payment plans available.



Lifetime Access

Get lifetime access to recorded sessions and learning resources.



Resume and LinkedIn

Receive a personalized resume and LinkedIn optimization.



Career Support

Benefit from Skillcubator's career support services. Free placement and unlimited post-placement support.

Data Analyst Career Roadmap

From Beginner to \$200K+ Career Path



Entry-Level Data Analyst/Business Intelligence Analyst

\$55K – \$75K

- Excel
- SQL (Basic)

- Power BI / Tableau

Mid-Level Data Analyst

\$70K – \$100K

- Advanced SQL
- Python / R
- Dashboarding
- Business Analysis

Senior Data Analyst

\$90K – \$130K

- Data Modeling
- Stakeholder Management
- Advanced Analytics

Analytics Manager

\$110K – \$140K+

- Team Leadership
- Data Strategy
- KPI Ownership

Technical

- Data Scientist
- ML Engineer

\$120 – \$180K+

Business

- Director of Analytics
- Chief Data Officer

\$130K – \$200K+



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Hiring Companies



Key Data Analysis Skills



Data Analytics Functions using Microsoft Excel.



Data Storytelling via Interactive Dashboard.



Statistical Analysis using Microsoft Excel.



From Basic to Advanced Structured Query Language (SQL).



Data Visualization Through PowerBI and Tableau.



Data Analytics using Python.



Data Analytics by leveraging Artificial Intelligence (AI).



Descriptive, Diagnostic, Predictive and Prescriptive Analytics.

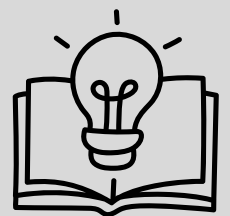


Data Mining Techniques.

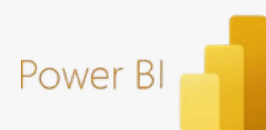


Data Modeling.

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Tools You Will Master



Metrics

50

PROFESSIONAL
INSTRUCTORS

87

NEW COURSES
EVERY YEAR

25

LIVE SESSIONS
EVERY MONTH

Live Instructor-
Led Sessions

100% Job
Placement Support

Global Credibility &
Practical Edge

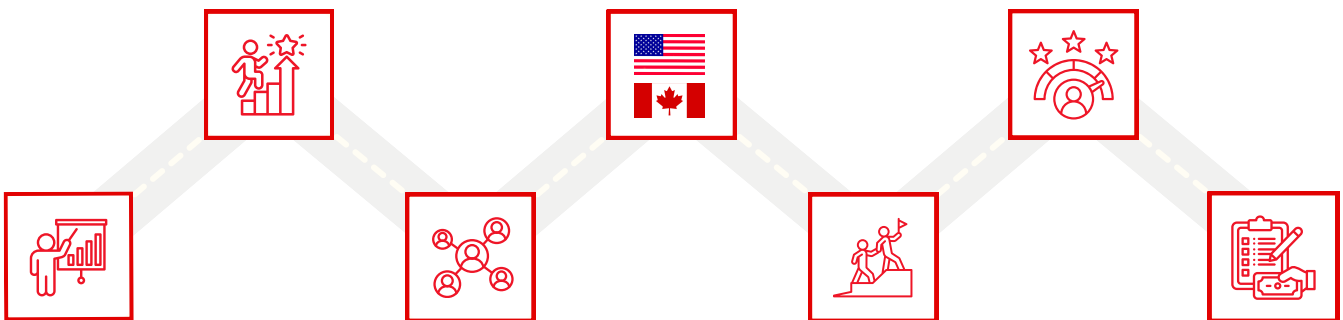
On-the-Project
Support

Skillcubator Edge

Career Transformation
In **3 Months**.

USA & Canada Job
Market Alignment.

We Bridge The
Experience Gap.



Top-Notch Instructors
With **Excellent**
Academics Backed
With Real-World
Corporate Experience.

Small **Batch** Size.

Lifetime **Free Career**
Mentorship.

Interest-Free
Payment Plan Options.

Prerequisites

- No prerequisites required to join the Data Analysis & Analytics training program.
- Basic computer skills are helpful, especially MS Office (Word, Excel, PowerPoint).
- Good communication skills in English, both verbal and written, are beneficial.

Available Formats for this Course



Live Online



Private Team Training



Course Structure & Modules

01

Module 1

Introduction to Data Analysis
and Data Analytics



02

Module 2

Data Analytics with Microsoft Excel



03

Module 3

Structured Query Language (SQL)



04

Module 4

Microsoft Power BI



05

Module 5

Python for Data Analytics



MODULE 1

INTRODUCTION TO DATA ANALYSIS/DATA ANALYTICS



- Introduction To Data Analytics.
- Data Analytics Concepts Overview.
- Understanding Descriptive Analytics, Diagnostic Analytics, Predictive Analytics And Prescriptive Analytics.
- What Is A Data?
- Understanding Different Types of Data, And Data Structures.
- Data Visualization for Decision-making.
- Difference Between Data Analytics And Business Intelligence.
- Creating Data Flow Diagram (DFD).
- Application Of Data Analytics In Different Business Domains.
- Data Analytics Framework and Latest Trends.

MODULE 2

DATA ANALYTICS WITH MICROSOFT EXCEL



- Microsoft Excel 101 (Basics of formula creation, Arithmetic functions, Statistical functions, Advanced functions (Index-Match), Conditional Formatting, VLOOKUP, HLOOKUP, XLOOKUP, Duplicate removal, Filtering and Sorting etc.).
- Advanced Functionalities in Microsoft Excel such as Pivot Tables, and Pivot Charts
- How to Create and Manage An Interactive Dashboard Using Slicers?
- Exporting Dashboard And Sharing It With Key Stakeholders.
- Power Pivot, Power Query In Excel For Data Transformations And Automated Refreshing.
- Creating Different Types Of Charts. (Pie, Bar, Column, Histogram, Line, Area, Scatter, etc.).
- Learn How To Perform Key Statistical Functions Like (a) Regression Analysis (b) Correlation Analysis Using Microsoft Excel.

MODULE 3

STRUCTURED QUERY LANGUAGE (SQL)



DATABASE FUNDAMENTALS

- Introduction To Databases.
- What Is DBMS And RDBMS?
- Understanding Database Schema?
- Creating Entity Relationship Diagram (ERD).
- Different Types Of Databases?
- Normalization & Denormalization.
- Relational Database Concepts (Tables, Rows, Columns).
- Installing SQL Software (My SQL).

INTRODUCTION TO SQL

- What is SQL?
- Types Of SQL Commands (DDL, DML, DQL, DCL, TCL).

DATA TYPES

- Integer, Float, Double, char(25), Varchar (256), Datetime, Timestamp.

DDL COMMANDS

- Create, Alter, Drop, Truncate.

DML COMMANDS

- Insert, Update, Delete.

BASIC QUERING (DQL)

- Select Queries (Select *, Limity, Distinct, Order By, Where Clause, Logical Operators, Between, In/Not In, And/Or/Not Operators, Like and Wildcards.

STRUCTURED QUERY LANGUAGE (SQL)

.... MODULE 3 CONTINUED

DQL COMMANDS, CASE STATEMENTS, AND HANDLING NULL VALUES

- Mathematical Operators (Min, Max, Count, Distinct Count, Average, Sum).
- Aggregation Specific Operators (Group By And Having).
- Date & Time Functions.
- Handling Null Values (IFNULL, COALESCE).

SQL STRING FUNCTIONS

- CONCAT, SUBSTRING, LENGTH, TRIM, UPPER/LOWER.

SQL MATHEMATICAL FUNCTIONS

- ROUND, CEILING, FLOOR.

SQL DATE AND TIME FUNCTIONS

- NOW(), DATE(), YEAR(), MONTH(), DATEDIFF().

JOINS

- Inner Join, Left Join, Right Join, Full Outer Join.

AGGREGATION AND GROUPING

- COUNT, SUM, AVG, MIN, MAX, GROUP BY, HAVING.

SPECIAL FUNCTIONS, SUB-QUERIES AND CTES AND VIEWS, ORDER OF EXECUTION

- Windows Function-Rank, Dense Rank, Lead, Lag, Row Number, Union, Union All, Sub-Queries, Common Table Expressions, Views, Order Of SQL Query Execution.

VIEWS AND INDEXES

- Creating Views, Updating Views, Index Basics.

TRANSACTIONS

- Commit and Rollback.

USER ACCESS CONTROL

- Grant, Revoke.

MODULE 4

MICROSOFT POWER BI



- What Is Data Visualization?
- Introduction To Microsoft Power BI.
- Microsoft Power BI Installation.
- Difference Between Microsoft Power BI Desktop & Microsoft Power BI Report Server.
- Understanding Microsoft Power BI User Interface.
- Understanding Type Of Visualization Techniques.
- Loading Data Into Microsoft Power BI From Multiple Sources.
- Creating A Data Model Between Different Tables.
- Creating Microsoft Power BI Dashboards.
- Understanding Different Graphs, Parameters, Slicers.
- Microsoft Power BI AI Visuals And Power Query (AI visuals in Power BI (Key Influencers, Smart Narratives, Decomposition Tree, Anomaly Detection, Q&A), Transformations using Power Query editor).
- The world of DAX: A Detailed View Into The World Of DAX Queries.
- Learning Advanced Concepts (Understanding Tooltips, Drill Down Options, Visual Interaction, Buttons, Bookmarks, Navigation, Join and Merge Queries).

MODULE 5

PYTHON FOR DATA ANALYTICS



- Fundamentals Of Programming.
- Anaconda Installation, Introduction to Python, Data Types, Operators, Slicing The Data, Inbuilt Functions In Python.
- Advanced Python Functions (Sets, Conditional Statements & Loops, Functions & Error Handling).
- Understand Pandas And Numpy For Data Analysis.
- Exploring Data (Head, Info, Describe), Cleaning Data: Missing Values, Duplicates, Type Conversion And Transformations: Sorting, Filtering, New Columns, Aggregations, Merging.
- Data Visualization With Matplotlib & Seaborn.

Is this Program Right for You?

Are you a creative, curious, and ambitious professional looking to join the data revolution? Or if any of the following describes your situation, then enrolling in our Data Analytics training and placement program could be a smart career move.

- You want to switch to the IT field and start your career in data analysis, data analytics or business intelligence areas.
- You are currently a professional working with data but are looking to advance your career by building technical skills.
- You are a manager or professional in a business where data can be used to boost your company's bottom line.
- You have interests in visualizing data to gain better insights, determine trends or any hidden patterns or correlation across huge data sets.



Certificate of Completion



CERTIFICATE OF COMPLETION
SKILLCUBATOR TRAINING INSTITUTE HEREBY CERTIFIES THAT

John Doe

Attended data analysis training program and successfully met all the requirements established by Skillcubator Training Institute and is hereby recognized as a

‘Certified Data Analytics Professional’

Date Issued: mm/dd/yyyy

Certificate No:

Issuing Authority: Skillcubator Training Institute USA

Skillcubator Inc. | 12825 Worldgate Dr, Suite 200, Herndon, VA, USA | www.skillcubator.com | 703-200-9921





Duration

10-12 Weeks

Core Training Hours: **84 Hours**

Fees

1500 USD

+ 5.3% Sales Tax

About Skillcubator Training and Placement Institute



Skillcubator is a premier training and job placement institute, based out of Washington DC metro area, USA. We offer high-quality, job-based and certification-based Information Technology (IT) training programs to any aspiring professional, looking to transform their career at any stage in their life.

Skillcubator's award-winning immersive learning model, delivered via live online training, focuses on applied learning to help an individual to successfully transition into new career paths.