



upGrad

Data Analyst Bootcamp with AI

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ABOUT

upGrad

upGrad is an online education platform to help individuals develop their professional potential in the most engaging learning environment. With an exponential increase in demand for skilled individuals, our aim is to help working professionals upskill in emerging new-age technologies.

upGrad's "Data Analyst Bootcamp with AI" is designed to provide participants with a comprehensive understanding of data analytics concepts and practical experience to kickstart their careers in the industry. The boot camp follows a technology-driven approach to revolutionize the delivery of education in the digital era.



Our aim is simple:

We strive to create high-impact, hands-on experiences that prepare students for meaningful and productive careers.

Ronnie Screwvalla

Co-founder and Executive Chairman

upGrad

ABOUT THE BOOTCAMP

Data Analyst is one of the profiles that is in high demand worldwide. With exponential growth in the amount of data generated and captured, there is now a heightened demand for skilled professionals who can make sense of the data, understand its relevance, and identify ways to leverage the learnings to the organization's advantage. This Bootcamp is designed to develop skilled Data Analysts.

Our industry experts train with the purpose of imparting job-ready skills that can be applied in an enterprise environment. Our immersive learning platform, coupled with well-planned and rigorous weekly training, ensures that you learn all the latest tools

and technologies with plenty of opportunities to practice what you learn. By the end of this course, you will be ready to address all the challenges that you may face in your job and develop the confidence to land the career opportunities that come your way.



PLACEMENT STATS

70000+

Career Transition

52%

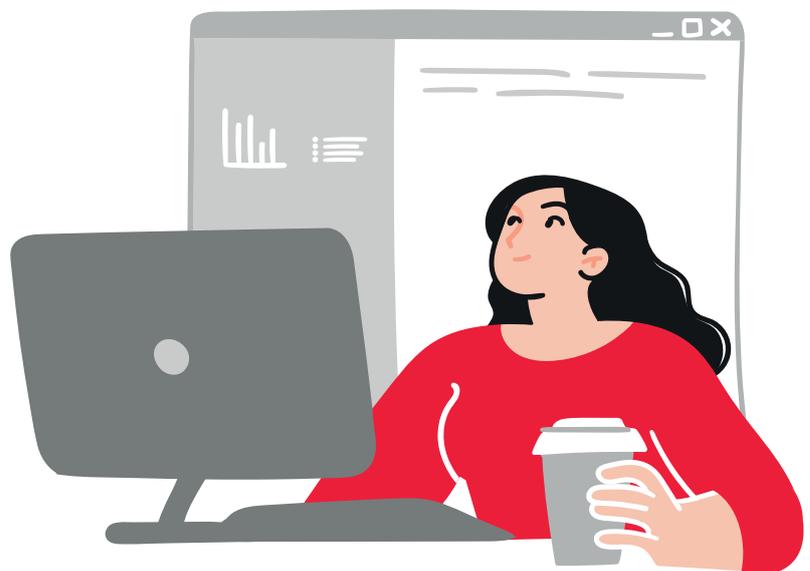
Average Salary Hike

8 LPA

Exciting Salaries

650+

Hiring Partners



PROGRAM DETAILS



Program Duration

Weekend - Sat-Sun - 3.5 Months



Eligibility Criteria

Any tech and non-tech graduates and professionals from any background are welcome to attend this Bootcamp and get certified as a skilled Data Analyst.

Admission Process



Step 1:

Apply for the program



Step 2:

Complete your application



Step 3:

Clear the assessment test



Step 4:

Reserve your seat

PROGRAM HIGHLIGHTS

87+

Hours Live Instructor-Led Sessions

146

Guided Hands-On Exercises for Practice

7

Capstone Projects for Applied Learning

46

Hours of Self-Paced Video Content

26

Additional Guided Assignments

57

Auto-Graded Assessments

250

Hours of Cloud Labs

Complimentary

Access to AI Engineer Bootcamp

WHY THIS BOOTCAMP?

The **Data Analyst Bootcamp with AI** is an industry-oriented curriculum with well-planned modules, peppered with interactive weekly activities and consistent guidance from mentors, ensuring that you diligently work towards reaching the key learning milestones while enjoying your learning journey.

	Video Courses	Bootcamps	upGrad
On-Demand Videos	Yes	Yes	Yes
Immersive Learning Experience	No	No	Yes
Hands-On with Cloud Labs	No	No	Yes
Structured Curriculum	No	Yes	Yes
Course Curated by Industry Experts	No	Yes	Yes
Auto-Graded Assessments	No	No	Yes
Real-World Projects	No	No	Yes
Lifetime Access to Courseware	Yes	No	Yes

- **Cloud Labs** is an intelligent immersive learning platform to practice codes and receive instant feedback on areas of improvement.

CAREER PATH WITH SALARY PACKAGES

- **Data Analyst:** Data Analysts collect, clean, and analyze data to help businesses make better decisions.
- **Senior Data Analyst:** Senior Data Analysts have more experience and responsibility than Data Analysts. They may lead data analysis projects or mentor junior data analysts.
- **Lead Data Analyst:** Lead Data Analysts are responsible for a team of data analysts. They may set goals, track progress, and provide feedback.

Data Analyst

INR 4.1 Lakhs

Senior Data Analyst

INR 7.5 Lakhs

Lead Data Analyst

INR 10 Lakhs



OUTCOME-BASED IMMERSIVE LEARNING

LEARN

Get an engaging and immersive learning experience with a focus on rich video content, detailed explanations, and interactive elements such as flashcards and quizzes to reinforce learning.

PRACTICE

Write code directly into your browser and get expert feedback. Practice and apply what you've learned in a hands-on manner.

ASSESS

Explore diagnostic, module-level, and final assessments. Track your skills learning progression and demonstrate your knowledge and capabilities.

INSIGHTS

Comprehensive reports offer deep insights for both learners and organizations. You can assess skills progression and make informed decisions about learning strategies.

APPLY

Gain work-like experiences through industry-grade projects designed to simulate real-world scenarios. Apply your skills and knowledge in a practical setting, similar to developers in leading tech companies.

PROGRAM

CURRICULUM

1. Git and GitHub Essentials

Topics :	<ul style="list-style-type: none">• Introduction to Version Control with Git• Git from the Command Line• Everyday Git Commands• Git for collaboration
Learning Objectives :	Build your foundation from the ground up with the Basecamp milestone. Gain critical and valuable knowledge and skills, both conceptual and practical, and get set to embrace technologies and workflows that follow.

2. Maths and Stats Foundation

Topics :	<ul style="list-style-type: none">• Probability• Statistics• Linear Algebra• Calculus
Learning Objectives :	The first step to becoming a proficient data analyst is the mastery of math and statistics. This milestone will help you understand the fundamental concepts of math and stats. A solid foundation in these concepts will help you gain meaningful insights from data.

PROGRAM

CURRICULUM

3. Master Excel for Data Analysis

Topics :	<ul style="list-style-type: none">• Data Cleaning and Preparing• PivotTable and Grouping for Data Analysis• Scenario and Sensitivity Analysis• Lookup Functions and Merging Techniques• Charts and Visualization Techniques• Data Analysis ToolPak for Statistics
Learning Objectives :	This milestone is aimed at making you a pro in data analysis using SQL and Python. Start your data analysis journey with Excel and learn how to perform basic and advanced analysis using Excel.

4. SQL for Data Analysis

Topics :	<ul style="list-style-type: none">• What is SQL and Why is it Important?• SQL Database Admin Commands• The Basics of SQL• Filtering Data Using WHERE Clause in SQL• Aggregation and Summary Functions in SQL• Miscellaneous Analysis in SQL• Table to Table Relationship in SQL• Combining Tables• Advanced SQL Data Analysis• Making Efficient Analysis
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PROGRAM

CURRICULUM

Learning Objectives:	Go beyond Excel and learn how to use SQL to extract and analyze data stored in databases. In this milestone you will learn how to extract data, join tables, perform aggregations and then move onto more complex analysis using subqueries, temp tables, and window functions.
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5. Essentials of Python for Data Analysis

Topics :	<ul style="list-style-type: none">• Introduction to Python• Code and Data• Building Blocks• Strings• Data Structures• Flow Control• Functions• Modules• Files• NumPy• Pandas• Regular Expression• Visualization
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Learning Objectives:	Get started on your Python learning journey with this milestone, aimed at helping learners understand Python through in-depth theory and practical lessons. Create powerful visuals and masterful data stories to solve complex business problems.
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PROGRAM

CURRICULUM

6. Advanced Data Analysis using Python

Topics :	<ul style="list-style-type: none">• Exploratory Data Analysis in Python• Confirmatory Data Analysis in Python• Intermediate pandas• Unstructured Data in Python• Working with APIs in Python• Parallel Computing with Dask• Intermediate Seaborn• Interactive Visualizations with Plotly and Bokeh
Learning Objectives :	Once you are set up with the essentials of Python, it's time to move on to Advanced Data Analysis using Python. By the end of this milestone, you would have mastered data analysis using Python to get meaningful insights from data. You will also learn how to perform EDA using Python.

7. Data Visualization using Tableau

Topics :	<ul style="list-style-type: none">• Introduction to Data Visualization and Tableau• Understanding Tableau Building Blocks• Managing Data connections• Prepare Data for use• Basic Data Visualization• Advanced Data Visualization• Slicing and Dicing Data• Tableau Basic Calculations• Tableau Advanced Calculations• Formatting• Dashboard Designing• Publishing and Sharing
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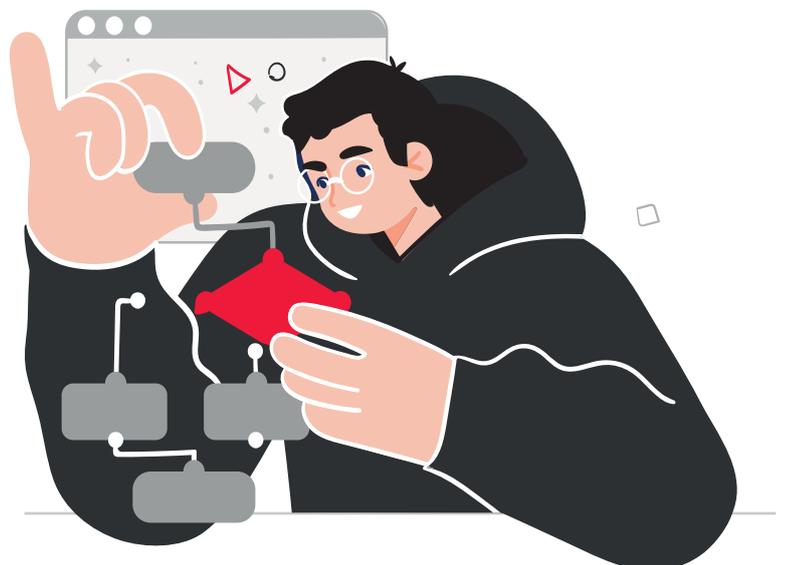
PROGRAM CURRICULUM

Learning Objectives:	This milestone will help you become a Tableau proficient by allowing you to explore, experiment with, fix, prepare, and present data easily, quickly, and beautifully. A strong theoretical foundation backed by in-depth hands-on practical will make you an expert Tableau user who can analyze and visually present data with ease.
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8. Microsoft Power BI

Topics :	Microsoft Power BI - The Complete Masterclass
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Learning Objectives :	Introduction to Data Visualization with Power BI Data Transformation - The Query Editor Tell a Story with Your Data - Learn to Visualize Effectively Power BI and Python.
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PROJECT PORTFOLIO



Boxify

Inventory Management

Track your inventory, view existing sales orders, create new orders, and generate real-time inventory reports on the go.



Nutrical

Nutrition

Get the calorie count information and nutrition facts for all the menu items available at McDonald's outlets.



LifeSave

Suicide Prevention

Get working suicide helpline numbers in India in case anyone is feeling suicidal. Identify suicide clusters based on past trends.



CheckMyFlight

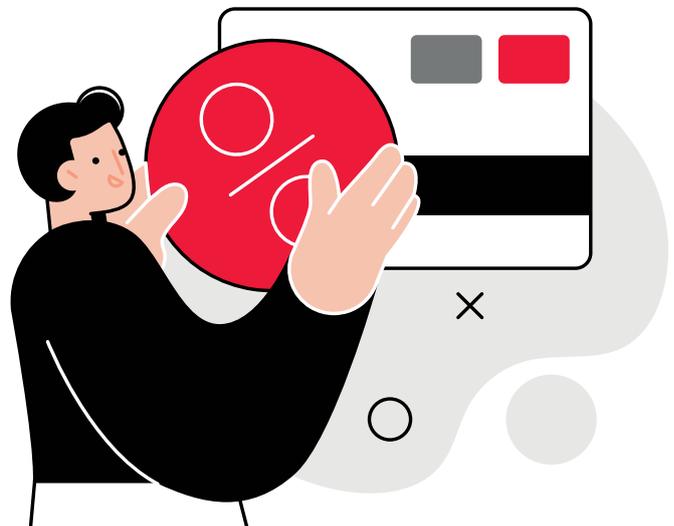
Travel

Analyze flight prices all over India, identify patterns (if any), and forecast future flight patterns using Tableau.

TOOLS AND TECHNOLOGIES COVERED



GitHub



OUR SUBJECT MATTER EXPERTS



Jeffrey Aven
Principal Consultant
Big Data Solutions



Peter Henstock
Machine Learning
& AI Lead
Pfizer, Ex-Harvard



Shobhit Nigam
Program Director
KnowledgeHut



Rahul Tiwari
Data Scientist
and Co-Founder
TheScholar



Dr. Vishwakarma J.S.
Enterprise Architect,
CTO
Aeries



Enes Bilgin
Staff Machine
Learning Engineer
Ex-Microsoft, Amazon

OUR SUBJECT MATTER EXPERTS



Rocky Jagtiani
Master Data Science
ML and AI trainer
Soven Consultants and
Technology Pvt. Ltd.



Manikant Kandukuri
Senior Data
Scientist
Ex Axis Solar



Jayanth MK
Data Science
Engineer
Siemens Technology



Akashdeep Makkar
Senior Data
Scientist
Unitedhealth Group



Urvinder Singh
Data Scientist

Colgate-Palmolive



**Mohammad
Shabbir Taibani**
Senior Data Analyst
TomTom

CAREER SERVICES



Outcome Orientation

- Own your growth trajectory and launch your full-stack development career with confidence.
- Get access to mock interviews, resume building, GitHub profile review, analysis and feedback.



Learn by Doing It Yourself

- Experience hands-on learning with industry projects.
- Discover the best industry practices.
- Learn through extensive coding sessions.



Immersive Learning

- On-demand videos
- Guided hands-on exercises
- Auto-graded assessments, recall quizzes, assignments and projects



Availability of Cloud Labs

- Exclusive full-featured development environment
- Powered by a pro-grade virtual machine
- Build apps right in your web browser

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🔍 upgrad.com

For further details, **contact:**



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