



 THINK BIG . TRAIN SMART . WIN HARD

ALGOFORGE STUDIOS

DATA SCIENCE | COURSE BROCHURE

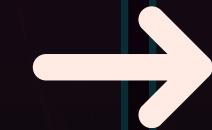


ALGOFORGE STUDIOS

01

ABOUT

US



AlgoForge Studios is a leading training and AI solutions company specializing in Data Science, Machine Learning, Cybersecurity, Generative AI, and Full-Stack technologies.

We provide industry-focused training, live projects, guaranteed paid internships, and placement support to help learners build strong, job-ready technical skills.



02

DATA SCIENCE



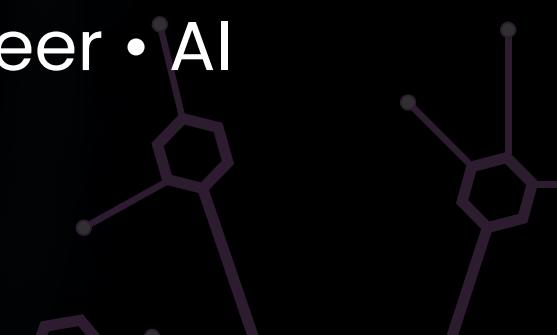
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Data Science is the field that transforms raw data into meaningful insights using statistics, programming, and machine learning. It helps businesses make smarter decisions, automate processes, and predict future outcomes.

At AlgoForge Studios, the Data Science domain equips learners with hands-on skills in data handling, visualization, and model building through real industry projects — preparing them for high-demand roles in the tech world.

Ideal career paths:
Data Scientist • Data Analyst • ML Engineer • AI
Analyst • Business Analyst





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OUR KEY BENEFITS

- Guaranteed Paid Internship
- Industry-Recognized Certification
- 24/7 Access to Learning Materials
- Dedicated Support System
- Live Projects & Real Client Work
- Placement Assistance
- Expert Trainers (7+ Years Experience)

03

COURSES UNDER THIS DOMAIN



**Data Science with Python
Course**



**Python for Data Science
Course**



**Statistics for Data Science
Course**



**Data Science Professional
Course**



DATA SCIENCE WITH PYTHON

- Duration: 10+ weeks
- Mode: Online
- Level: Beginner – Intermediate
- Course Fee: ₹22,000



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COURSE CURRICULUM

01

Data Science Overview

- Data Science, Data Mining, Statistics
- Supervised vs Unsupervised Learning
- Quiz Module 1

02

Data Analytics and Business Application

- Analytics Definition and Applications
- Why Analytics and Roles (Application and Roles in various domains..)
- Tools and Techniques in Analytics
- Quiz Module 2

03

Python Environment Setup and Essentials

- Anaconda - Download & Setup
- IDEs - Jupyter, Spyder, PyCharm
- Git - Setup and Configuration with IDEs
- Creating and Managing Analytics/ ML Projects
- Quiz Module 3

06



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COURSE CURRICULUM

04

Mathematical Computing With Python

- Understanding NumPy Library
- Managing and manipulating data
- Quiz Module 4

05

Scientific Computing With Python

- Understanding SciPy Library
- Managing and manipulating data
- Quiz Module 5

06

Data Manipulation With Pandas

- Group Summaries
- Crosstab, Pivot and Reshape data
- Managing Missing Values
- Outliers Detection
- Managing indexes in pandas
- Quiz Module 6

07



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COURSE CURRICULUM

07

Data Visualization in python Using Matplotlib

- Selection of Graph
- Libraries (matplotlib, seaborn, plotnine)
- Basic Graphs (histogram, barplot, boxplot, pie, etc)
- Managing plot parameters
- Advanced Graphs (correlation, heatmap, mosaic, etc)
- Exporting graphs
- Quiz Module 7

08

Complimentary Module Soft Skills Development

- Business Communication
- Preparation for the Interview
- Presentation Skills

09

Complimentary Module Resume Writing

- Resume Writing

08



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09



PYTHON FOR DATA SCIENCE

- Duration: 4+ weeks
- Mode: Online
- Level: Beginner – Intermediate
- Course Fee: ₹5317



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COURSE CURRICULUM

01

Python Basics

- Anaconda - Download & Setup
- IDEs - Jupyter, Spyder, PyCharm
- Git - Setup and Configuration with IDEs
- Creating and Managing Analytics/ ML Projects
- Quiz Module 1

02

Python Programming Fundamentals

- Data import and export
- Operators in Python
- Quiz Module 2

03

Python Data Structures

- Basic Data Structures & Programming Constructs
- Handling Libraries in Python
 - Numpy
 - Pandas
 - Matplotlib
- Quiz Module 3



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COURSE CURRICULUM

04

Working with Data in Python

- Group Summaries
- Managing Missing Values
- Various types of Joins, merge
- Partitioning data into train and test set
- Scaling of Data (useful for Clustering)
- Quiz Module 4

05

Working with NumPy Arrays

- Attributes of arrays
- Indexing of arrays
- Slicing of arrays
- Reshaping of arrays
- Joining and splitting of arrays
- Quiz Module 5

06

Complimentary Module Soft Skills Development

- Business Communication
- Preparation for the Interview
- Presentation Skills



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STATISTICS FOR DATA SCIENCE

- Duration: 7+ weeks
- Mode: Online
- Level: Beginner
- Course Fee: ₹7800



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COURSE CURRICULUM

01

Introduction to Statistics

- Introduction to Statistics
- Introduction to Data Science
- Quiz Module 1

02

Fundamentals of Descriptive Statistics

- Measures of Central Tendency, Asymmetry, and Variability
- Practical Example: Descriptive Statistics
- Distributions
- Quiz Module 2

03

Advanced Studies

- Estimators and Estimates
- Hypothesis Testing: Introduction
- Practical Examples for Hypothesis Testing
- Quiz Module 3



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COURSE CURRICULUM

04

Regression Analysis

- Fundamentals of Regression Analysis
- Assumptions of Regression Analysis
- Dealing with Categorical Data
- Practical Examples for Regression Analysis
- Quiz Module 4

05

Complimentary Module Soft Skills Development

- Business Communication
- Preparation for the Interview
- Presentation Skills

06

Complimentary Module Resume writing

- Resume writing



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DATA SCIENCE PROFESSIONAL

- Duration: 10 weeks
- Mode: Online
- Level: Beginner
- Course Fee: ₹12,500



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COURSE CURRICULUM

01

Introduction to Data Science

- Understanding Data Science
- Data Analysis in Excel
- Analytics Problem Solving
- Quiz Module 1

02

Introduction to python Exploratory

- Data Tool-Kit Data Analysis using SQL
- Introduction to Python Exploratory
- Data Analysis Inferential Statistics Hypothesis Testing
- Quiz Module 2

03

Getting And Cleaning Data

- Components of complete Data Set
 - Raw data, codebooks
- How to collect, clean and share data
- Quiz Module 3



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COURSE CURRICULUM

04

Exploratory Data Analysis

- Understanding multivariate statistical techniques
- Learn different statistical analysis tools
- Quiz Module 4

05

Research and Statistical Inference

- Know various plotting systems in different programming languages
- How to publish Data Analysis
- How to take informed and accurate decisions
- Quiz Module 5

06

Regression Models and Practical Machine Learning

- Model selection and novel uses of regression models
- Building prediction functions — Data collection, feature creation
- How to apply Algorithms and learning how to do evaluation
- Quiz Module 6

CAREER OPPORTUNITIES FOR DATA SCIENCE



- Data Scientist
- Data Analyst
- Machine Learning Engineer
- AI Engineer
- Business/Data Analyst
- Research Analyst



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WHY CHOOSE ALGOFORGE

AlgoForge Studios stands out as a leading training hub because we combine industry expertise with practical, project-driven learning. All our courses are taught by experienced professionals with strong real-world backgrounds. We focus on hands-on training through live projects, case studies, and real client assignments, ensuring students gain skills that directly meet industry needs. Our programs are powered by advanced infrastructure, including NVIDIA DGX A100 systems for high-performance AI and deep learning workloads. We also provide internships, placement support, personalized mentorship, and portfolio-building guidance to help students confidently begin their careers. With flexible learning options, an updated curriculum, and affordable fees, AlgoForge Studios offers a complete, career-focused pathway for anyone looking to excel in tech.



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GET IN TOUCH WITH US

Thank you for joining us on this journey through innovation and technology. For further inquiries or collaborations, please feel free to contact us



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