

DATA SCIENCE & ANALYTICS CERTIFICATE PROGRAM

The Data Science & Analytics Certificate Program from Acadmiac is a practical, industry-focused training designed to equip learners with foundational skills in data science and analytics. It covers essential areas such as Python programming, data handling with libraries like Pandas and NumPy, data visualization, statistics, exploratory data analysis, and introductory machine learning.



PROGRAM OVERVIEW

- Designed to build strong analytical and problem-solving skills
- Focus on practical, data-driven learning
- Covers Python, data handling, visualization, statistics & ML fundamentals
- Hands-on projects included



WHY THIS PROGRAM? (ACADMIAC ADVANTAGE)

- ✓ Strong foundation in Python & statistics
- ✓ Work with real datasets using industry tools
- ✓ Develop analytical thinking and interpretation skills
- ✓ Practical projects reflect real-world workflows
 - ✓ Prepares for entry-level data roles



MODULE BREAKDOWN

Module 1: Introduction to Data Science & Analytics

- What is data science
- Types of data & sources
- Data science lifecycle & applications



MODULE 2: PYTHON PROGRAMMING FOR DATA SCIENCE

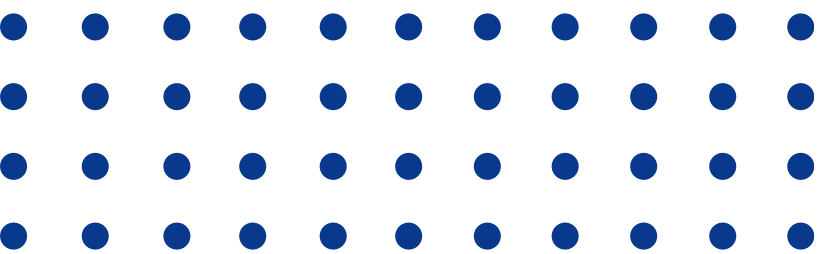
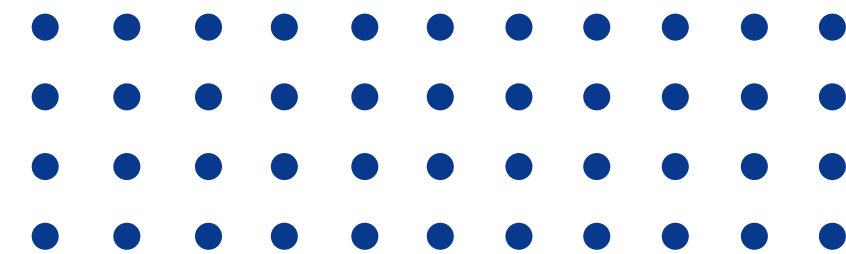
- Python basics, syntax & control flow
- Functions & environment setup

MODULE 4: DATA VISUALIZATION & INSIGHTS

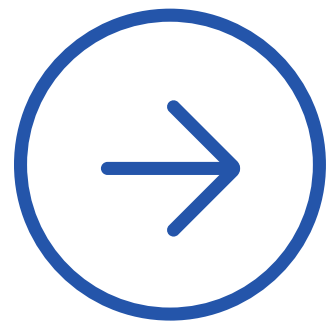
- Visualization concepts with Matplotlib & Seaborn
- Storytelling with charts & plots

MODULE 3: DATA HANDLING WITH NUMPY & PANDAS

- Arrays, Series & DataFrames
- Data loading, cleaning, preprocessing



STATISTICS FOR DATA SCIENCE



- Descriptive statistics & probability
- Distributions, correlation & variability






INTRODUCTION TO MACHINE LEARNING

- Supervised vs unsupervised learning
- Overview of common ML algorithms

MODULE BREAKDOWN

Module 8: Machine Learning with Python

- Regression & classification basics
 - Model evaluation & tuning concepts
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TOOLS & WORKFLOWS

- Jupyter Notebook
- Real-world data science project workflows
- Version control basics






DATA SCIENCE PROJECT & PRESENTATION

- End-to-end project cycle
- From problem definition → analysis → presentation





PROGRAM DETAILS & CONTACT

-  **Duration: 12 Weeks**
-  **Modules: 10**
-  **Mode: On-Campus**
-  **Certificate: Yes**
-  **Instructor: Mr. Mukesh Pandey**

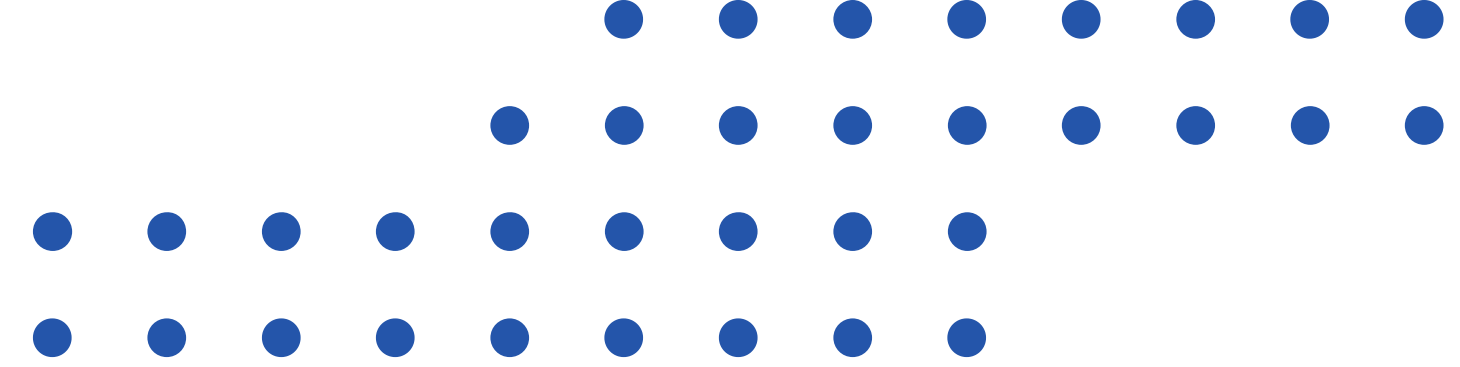
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THANKYOU

www.acadmiac.com

