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ADYAPAN

# Adyapan School

## Data Science



Duration - 2 months

Industry  
Certification



Skill India Certified

250+  
Partner Companies

# Learn to analyze, visualize, and innovate with data.

From data to actionable intelligence - become industry-ready.

This immersive Data Science program takes you beyond foundational concepts into real-world data-driven problem solving. Learn data analysis, statistical modeling, machine learning and data visualization through hands-on projects and guided workflows. With a strong focus on practical implementation and industry use-cases, you'll graduate with the ability to extract insights from complex datasets, build predictive models and drive informed decision-making with confidence.

8

MODULES

30+

PROGRAM OFFERINGS

20,000+

STUDENTS

250+ PARTNERED COMPANIES



ABOUT ADYAPAN SCHOOLS

## Where education meets real-world impact

Not just a course - a platform to launch  
your career.

Adyapan Schools was built with a single conviction:  
learning works best when it happens in the real world.  
We partner with top companies, mentors, and industry  
platforms to ensure every student graduates with a  
portfolio of work that speaks louder than a certificate.

Our programs combine rigorous coursework with live  
client projects, giving you the skills and proof-of-work  
that employers actually want.

### MISSION

To equip ambitious learners with  
practitioner-level digital  
marketing skills through mentor-  
led, project-based education that  
bridges the gap between learning  
and earning.



### VISION

To be India's most trusted  
launchpad for the next generation  
of marketing leaders - defined  
not by degrees but by the real  
work.



## Everything you need to grow fast

### PROGRAM HIGHLIGHTS



#### Live Industry Projects

Work on campaigns for real brands alongside your coursework. Build portfolio projects that prove your expertise to employers.



#### 1-on-1 Mentorship

Dedicated mentors from Google, Microsoft, Mastercard and more. Get personalized guidance and industry connections.



#### AI-Powered Marketing

Learn cutting-edge AI tools alongside evergreen fundamentals. Stay ahead of the curve in a rapidly evolving landscape.



#### Dual Certification

Earn both a Course Completion and Internship Certificate – accredited by Skill India Digital Hub and NSDC.



#### Internship Guarantee

Graduate with an internship completion certificate from a live brand project. Concrete, resume-ready proof of work.



#### Industry Network

Join a network of alumni at Amazon, Google, Adobe, Microsoft. Access exclusive hiring events and referral opportunities.

## CURRICULUM

# 8 weeks. 8 modules. Infinite impact.

### WEEK 1

#### The Data Scientist's Toolkit

- Discussion of Curriculum
- Explore the data scientist's ecosystem: libraries, packages, datasets, machine learning models, and Big Data tools
- Understand the roles of Python, and SQL in data science and when each language is the right choice
- Set up and navigate development environments including Jupyter Notebooks
- Create and manage source code



### WEEK 2

#### Python Fundamentals

- Learn Python basics: syntax, data types, expressions, variables, and string operations from scratch
- Apply programming logic using conditions, branching, loops, and exception handling
- Understand functions, objects, and classes to write reusable, organized Python code
- Practice writing and running Python scripts inside Jupyter Notebooks



### WEEK 3

#### Python Data Structures & Libraries

- Master Python data structures: lists, tuples, dictionaries, and sets and understand when to use each
- Use NumPy for numerical computation and array operations that underpin data science workflows
- Use Pandas for data manipulation: loading, filtering, grouping, and transforming structured datasets
- Apply file I/O operations and JSON handling to read, write, and process real-world data files



## 8 weeks. 8 modules. Infinite impact.

### WEEK 4

#### Web Data, APIs & Scraping

- Understand what REST APIs are and use the requests library to extract data from live web services
- Perform web scraping with BeautifulSoup to collect structured data from websites programmatically
- Handle API authentication, pagination, and response parsing to build reliable data pipelines



### WEEK 5

#### Python for Data Science

- Apply Python fundamentals to a real project
- Collect, clean, and wrangle raw data using Pandas and BeautifulSoup
- Visualize findings using Plotly to build interactive charts inside a Jupyter Notebook
- Build and a complete data dashboard that communicates insights clearly to a non-technical audience



### WEEK 6

#### Descriptive Statistics & Probability

- Calculate and interpret descriptive statistics: mean, median, variance, standard deviation, and distribution shape
- Understand probability fundamentals and common probability distributions used in data science
- Visualize statistical summaries and distributions using Python to identify patterns and outliers in data
- Apply correlation analysis to measure relationships between variables and assess their strength and direction



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CURRICULUM

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### WEEK 7

#### Hypothesis Testing & Regression

- Conduct hypothesis testing in Python: T-tests, ANOVA, and chi-square tests with correct interpretation of p-values
- Understand the logic of statistical inference and how to draw conclusions from sample data
- Build and interpret simple and multiple regression models to explain and predict continuous outcomes
- Evaluate model fit and understand key regression assumptions including linearity, normality, and homoscedasticity



### WEEK 8

#### Databases & SQL

- Understand relational database structure and create tables using DDL commands in SQL
- Write basic to intermediate SQL queries using DML commands: SELECT, WHERE, GROUP BY, JOIN, and ORDER BY
- Apply advanced SQL techniques including views, transactions, stored procedures, and subqueries



# Adyapan School

WHO THIS IS FOR

## This course is perfect for

Students & Career Switchers

Aspiring Data Scientists & Machine Learning Professionals

CS, IT, Engineering & Statistics Students

Working Professionals in IT, Analytics & Business Intelligence

Data Analysts Transitioning to Advanced Data Science Roles

AI, Machine Learning & Data-Driven Decision Enthusiasts

### CERTIFICATIONS



### ALUMNI NETWORK

## Our alumni work at world-class companies

Amazon

Adobe

Google

Autodesk

Microsoft

Deloitte

## Your career switch is one click away.

Ready to begin? Apply at [adyapanschool.com](https://adyapanschool.com) or email us at [support@adyapan.com](mailto:support@adyapan.com)

Apply Now