



# Adhyayan

**IT TRAINING AND PLACEMENT**

# DATA SCIENCE & MACHINE LEARNING

Fast-track your career in the IT industry with our Data Science & Machine Learning Course. You'll become an expert at the data wrangling techniques of the most popular Python Libraries (NumPy, Pandas, Matplotlib etc)



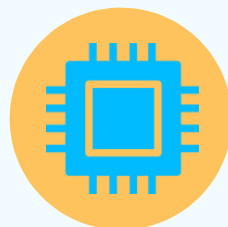
# HIGHLIGHTS OF THE Learning Path

160+ Hours of Online Classes



Limited Students Batch

Career Service and Placement opportunity



Learn 3+ Technologies

Learn from Experts



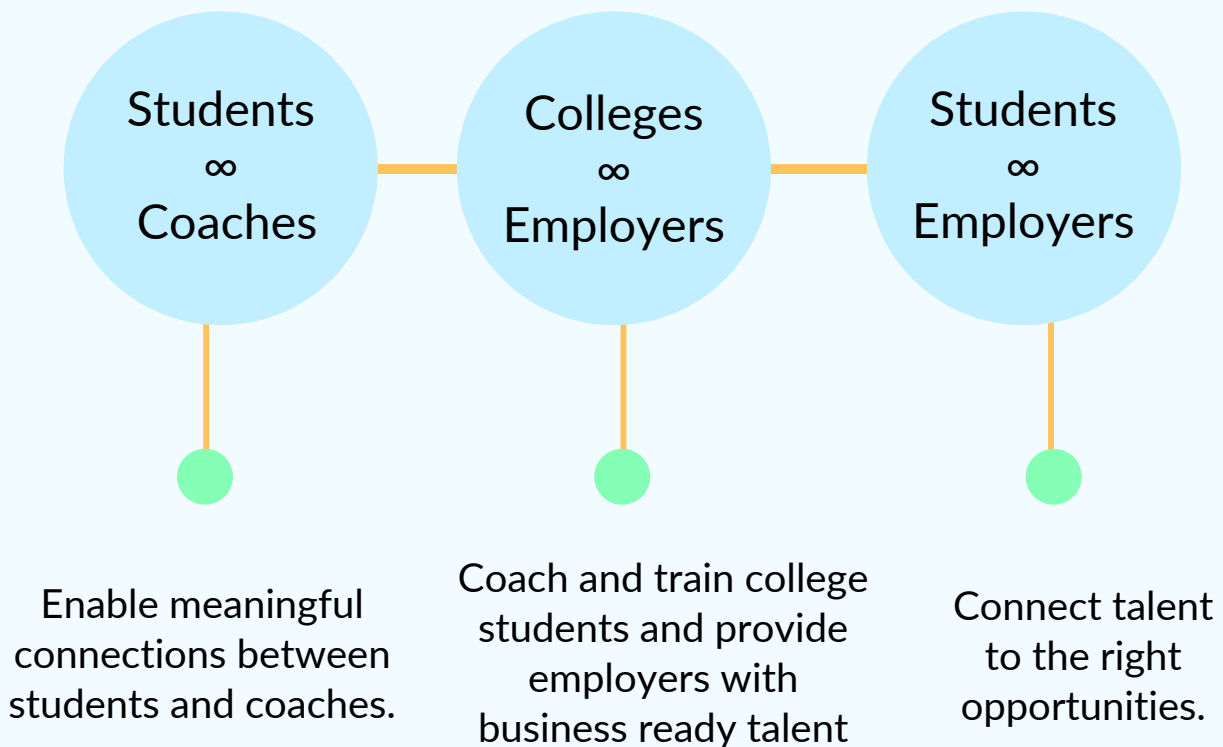
2000+ Certified Learners



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# WHO ARE WE?

Adhyayan IT Training & Placement is a IT career platform for students and jobseekers enabled by personalized learning paths, career coaches and access to opportunities. Be it a career transition, your first job, campus placements preparation or any career guidance. Adhyayan is a one- stop solution to all your career needs.



## BEST IT TRAINING & PLACEMENT CENTER IN PUNE



# WHAT IS FULL STACK DEVELOPMENT?

One of the skills in an up-rise in today's market, becoming a full-stack developer is an aim every web developer has. A full-stack developer has the ability to develop a product from scratch to finish using back-end, front-end, database and DevOps knowledge.

## VIDEO EXPLANATION



## CAMPUS TOUR OF ADHYAYAN



# SALIENT FEATURES OF THE COURSE



160+ Hours of  
Intensive  
Learning



80+ Hours of Hands-on  
Practical Sessions



Career Services and  
Placement opportunity



Lifetime Access to  
Latest Content



Learn from the  
Industry Experts



24X7 Support through  
Discussion form



Career Support

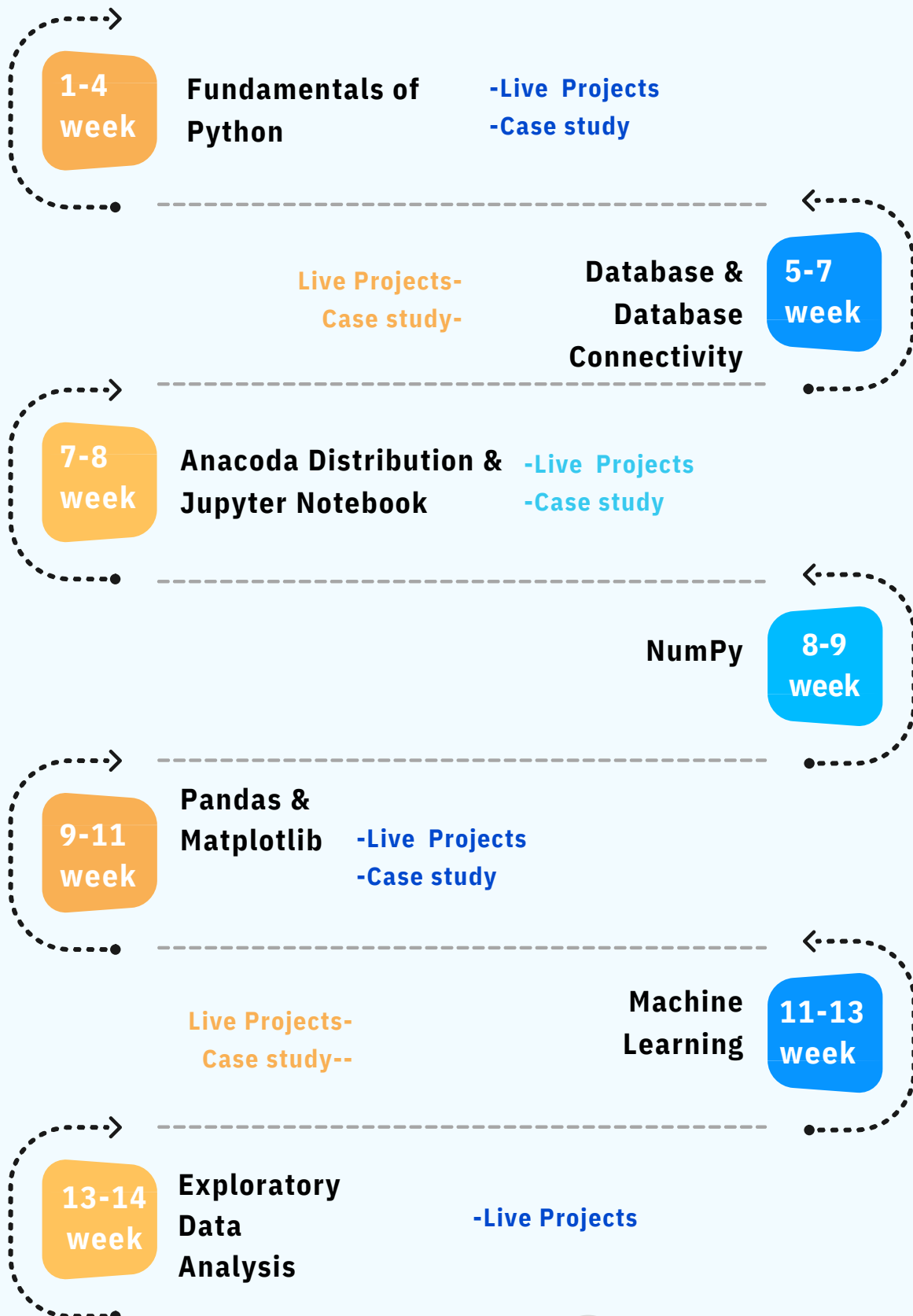


Build your Softskills

## WHO SHOULD TAKE THE COURSE?

Any College Fresher Student, 0-2 Yrs Experience.  
CODING BEGINNERS, IT DEVELOPERS

# ABOUT THE COURSE

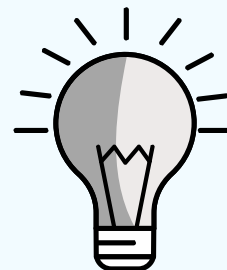


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# WHY ADHYAYAN?



**Adhyayan IT  
Training & Placement**



**Other  
Classes**

More than 95%	Course Completion Rate	Less than 20%
Dedicated Placement Cell	Placement Services	No
Yes	Live Classes with Experts	No
Yes	Dedicated Student Mentor	No
Yes	1:1 Doubt Clearing Sessions	No
Yes	1:1 Placement Preparation	No
Yes	Live Projects	No
Yes	Continuous Mocks, Viva and Feedback Sessions	No
Yes	Personalised Course Structure	No
Yes	Industry Guest Lectures	No



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# ABOUT THE COURSE

Data science and machine learning are two rapidly growing fields in the world of technology. Data science involves analyzing and interpreting complex data sets to glean insights and make informed decisions. Machine learning, on the other hand, is a subset of artificial intelligence that involves building algorithms and models that enable machines to learn and improve on their own.

Together, data science and machine learning are revolutionizing industries across the board. From healthcare to finance to transportation, these fields are helping businesses make more accurate predictions, automate processes, and ultimately, save time and money.

One of the most exciting aspects of data science and machine learning is their potential to drive innovation. As more and more data becomes available, there are endless possibilities for using it to create new products and services, improve existing ones, and solve complex problems.

However, it's important to note that with great power comes great responsibility. As data science and machine learning continue to advance, it's crucial that we prioritize ethical considerations and ensure that these technologies are being used to benefit society as a whole.

In addition to their potential for innovation, data science and machine learning also have the ability to create more diverse and inclusive solutions. By analyzing large data sets, we can identify areas where underrepresented groups may be facing challenges and work to create solutions that address these issues. This can lead to a more equitable society and a better quality of life for all individuals.

Another important aspect of data science and machine learning is their ability to improve decision-making processes. With the insights gained through analyzing data, businesses and organizations can make more informed decisions, reducing the risk of errors and improving outcomes. This can be especially beneficial in fields like healthcare, where accurate and timely decisions can mean the difference between life and death.

Overall, the growing fields of data science and machine learning offer exciting opportunities for innovation, inclusivity, and improved decision-making. As we continue to push the boundaries of what's possible, it's important that we do so in a responsible and ethical manner, ensuring that the benefits of these technologies are shared by all members of society.



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# WHAT WILL YOU LEARN

## CURRICULUM

### 1] Core Python

- **An Introduction to Python**
  - What is Python and history of Python?
  - Features of Python.
  - Installation and Working with Python.
  - Understanding Python variables.
  - Python basic Operators.
  - Python Identifiers, Keywords.
  - Understanding python blocks.
  - Command line arguments.
  - Getting User Input.
  - Python Data Types.
  - What are variables?
- **Program Flow Control**
  - Conditional blocks using if, else and else if.
  - For loops in python.
  - For loop using ranges, string, list and dictionaries.
  - Use of while loops in python.
  - Loop manipulation using pass, continue, break and else.
  - Programming using Python conditional and loops block.



# WHAT WILL YOU LEARN

## CURRICULUM

- **List, Ranges, Dictionaries, Tuples and Sets in Python**
  - Introduction.
  - Lists in Python
  - Tuples in Python
  - Python Dictionaries
  - Dictionary manipulation.
  - Ordered Sets with tuples
  - Sets
  - Python Sets Examples
- **File Input and Output in Python**
  - File opening modes in Python.
  - Reading files in python.
  - Writing files in python.
  - Understanding built-in functions.



## 2] Database

- **Structured Query Language**
  - MYSQL Introduction
  - Data Types
  - DDL, DML, TCL
  - Constraints
  - DISTINCT Clause



# WHAT WILL YOU LEARN

## CURRICULUM

- **WHERE Clause**
- **MYSQL Conditions ( AND, OR, BOOLEAN, LIKE, IN )**
- **MYSQL Functions ( MIN, MAX, AVG, SUM, COUNT )**
- **ORDER BY Clause**
- **GROUP BY Clause**
- **Relationships in SQL**
- **Joins in SQL**



- **Python Database Connectivity (PDBC)**
  - **SQL Database connection using python.**
  - **Install the MySQL dB and other Packages**
  - **DML and DDL Operations with Databases.**
  - **Performing Transactions.**
  - **Handling Database Errors.**
  - **Disconnecting Database.**
  - **CRUD Operation Project using PDBC.**



### 3] Data Science

- **Anaconda Distribution installation**
  - **Installation**
  - **Jupyter Notebook introduction**
  - **Jupyter Commands**
  - **Magic commands**



# WHAT WILL YOU LEARN

## CURRICULUM

- **NumPy**
  - Introduction to NumPy Array
  - Installation of NumPy module
  - Why NumPy? Advantages over Python List?
  - The Basics of NumPy
  - Defining MultiDimensional Array
  - Printing of NumPy Array
  - Accessing NumPy array using fancy, index, slicing methods
  - Array Manipulations
  - Array Math
  - NumPy functions
  - NumPy Math functions
  - Random number generation
  - Dealing with NaN values within NumPy Array
  - Date time handling using NumPy array
  - Broadcasting/Reshape/Resizing
  - Aggregate function
  - Help on NumPy
  - Save and load array to and from file
- **Pandas**
  - Introduction to Pandas
  - Installation of Pandas



# WHAT WILL YOU LEARN

## CURRICULUM

- **Reading different file formats with different parameters**
- **CSV**
- **Excel**
- **JSON**
- **Series & operations**
- **Data Frames**
- **Creating customized index**
- **Hierarchical indexing**
- **Adding header to the rows**
- **Data Frame functions**
- **Creating data frame using Series, Data Dictionaries, files, List, Nddarray**
- **Accessing data frames**
- **Accessing rows – slicing, fancy, index**
- **Accessing columns by name, index**
- **Loc, iloc**
- **Adding column/s**
- **Adding row/s**
- **Manipulating values within data frame**
- **Dropping column/s**
- **Conversion of column data type**
- **Aggregate functions**
- **Statistical functions on Data Frames**



# WHAT WILL YOU LEARN

## CURRICULUM

- **Matplotlib**
  - What is Matplotlib?
  - Installation, configuration
  - How to plot
  - Histogram
  - Bar Chart
  - Pie chart
  - Line chart
  - Multi line chart
  - Area chart
  - Box plot
  - Heatmap
  - Scatter plot



## 4] Machine Learning

- **Introduction**
- **Regression**
  - Introduction classification problems, Identification of a regression problem, dependent and independent variables.
  - How to train the model in a regression problem.
  - How to evaluate the model for a regression problem.
  - How to optimize the efficiency of the regression model.



# WHAT WILL YOU LEARN

## CURRICULUM

- **Classification**
  - Introduction to classification problems, Identification of a classification problem, dependent and independent variables.
  - How to train the model in a classification problem.
  - How to evaluate the model for a classification problem
- **Clustering**
  - Introduction to clustering problems, Identification of a clustering problem, dependent and independent variables.
  - How to train the model in a clustering problem.
  - How to evaluate the model for a clustering problem.
  - How to optimize the efficiency of the clustering model
- **Performance Metrics**
  - Classification reports – To evaluate the model on various metrics like recall, precision, f-support, etc.
  - Confusion matrix – To evaluate the true positive/negative, false positive/negative outcomes in the model.
  - $r^2$ , adjusted  $r^2$ , mean squared error, etc.

**We provide 1:1 placement coaching in a series of sessions**



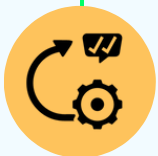
**Role Clarity**



**Knowledge Check**



**Project Assignment**



**Project evaluation and Development**



**Resume Building**



**Mock Interview**



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# OUR COACHES



**Vaibhav Sir**

Python, Django,  
Data Science, ML



**Girish Sir**

Core Java, Database,  
JDBC, Hibernate



**Ajinkya Sir**

Core Java, Advance  
Java, Spring, JDK8



**Mayur Sir**

HTML,CSS,JS,  
React, Node JS



**Akriti Ma'am**

HTML,CSS,JS, Angular,  
Ruby on Rails



**Deepika Ma'am**

C, C++, Core java,  
Advance Java



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# CAREER TRANSITION OF ADHYAYAN LEARNERS



**Digvijay K.**

**Cloud & DevOps**



**Knackbe  
Technologies**



**Chetan P.**

**Fullstack Python**



**TATA  
ELXSI**



**Mangesh K.**

**Fullstack Java**



**Inferyx**



**Amit N.**

**Fullstack Java**



**Datamato  
Technologies**



**Yogesh T.**

**Fullstack Java**



**Rootware  
Technologies**



**Mayur M.**

**Fullstack Java**



**JJIT**

# WHAT OUR CERTIFIED STUDENTS SAY ABOUT OUR COURSE?



Abhishek Wakde

I am learning data science from this institute. Genuinely, class teacher as well as his teaching skills are amazing, easy to understand. Staff and teacher is so friendly and supportive. It provides online as well as offline classes.



Parag Joshi

The course was well organised, clear and easy to follow and the instructor was very knowledgeable with excellent presentation skills." "The instructor did a great job in covering the course material. His personality was lively and encouraged engagement from all students." Software testing course was explained In details with live project.



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# WHAT OUR CERTIFIED STUDENTS SAY ABOUT OUR COURSE?



**Pramod Marathe**

If I am share My experience with the Adhyayan IT Training And Placement institute, including aspects like the quality of instruction, practical application of skills, and any support provided by the trainer. It was great Experience here As a Student.



**Sejal Thombre**

I'm doing full stack python course at Adhyayn IT Training and Placement. This is best place for learning programming languages. Teacher here is excellent... plus point of this class is he cover each topic deeply and repeatedly and explain practically and also help to increase student confidence and build logical thinking for program.



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# CERTIFICATES

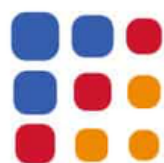


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# POTENTIAL RECRUITERS



INFERYX



blanco



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