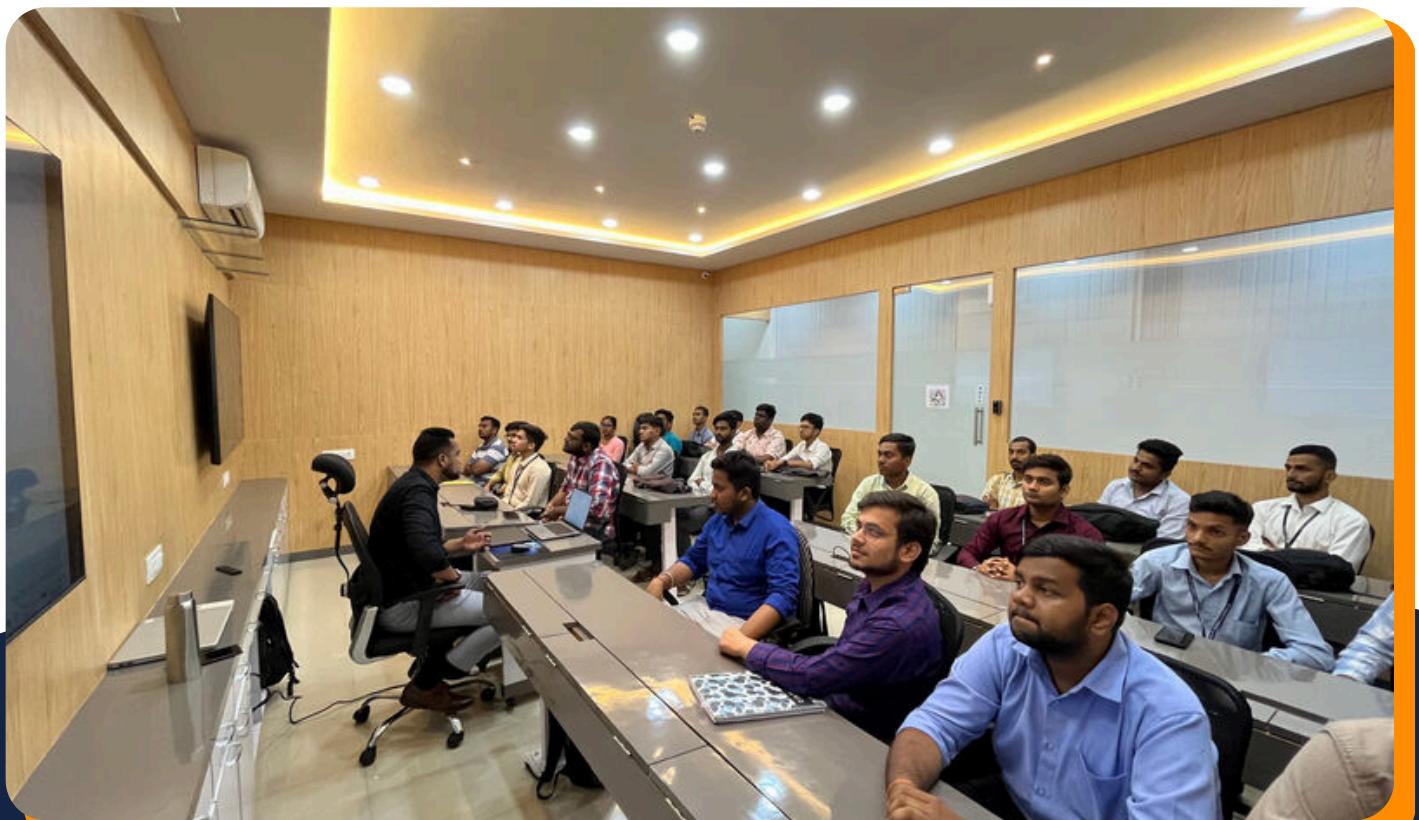


**LEADERS IN PROFESSIONAL TRAINING PROGRAMS**

**MASTER PROGRAM IN**  
**Advanced Data Analytics**  
**with Python Libraries**

Duration  
20 Hours



#1 MUMBAI's PREMIUM  
TRAINING INSTITUTE

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+91 84-889-889-84

[www.cinutedigital.com](http://www.cinutedigital.com)



# **Cinute Digital Pvt. Ltd.**

## **A Premier EdTech Company**

### **About Us**

Cinute Digital Pvt. Ltd. (CDPL) is a Premier EdTech Company, bridging the gap between academic learning and industry demands. Our hands-on training programs in Software Testing, Data Science & AI, Machine Learning, and Business Intelligence equip graduates and professionals with job-ready skills.

### **Our Mission**

To provide experiential, high-quality IT training that empowers individuals with in-demand skills, making them employable and future-ready.



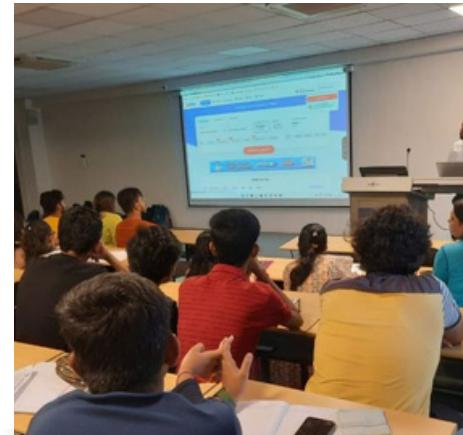
### **Our Vision**

To be the leading IT training institute, equipping learners with cutting-edge skills for career success, and bridging the gap between academic learning and industry.





## CDPL ADVANTAGES



### 80:20 APPROACH

80 practical and 20 Theory model  
for Industry rich Experience



### REAL-TIME PROJECTS

Gain hands-on experience with real-world projects and case studies



### 1:1 DOUBT SOLVING

The 1:1 Doubt solving ensures  
every silly doubt is resolved



### EXPERT INSTRUCTORS

Learn from seasoned data analysts  
and Industry veterans.



### GLOBAL CERTIFICATION

Get International recognized  
Certificates from AAA



### CAREER SUPPORT

Receive Resume-building and  
interview preparation.



### 100 % JOB ASSISTANCE

Stay ahead with industry-relevant  
training.



### 14+ YEARS OF EXPERTISE

Stay ahead with industry-relevant  
training.

At Cinute Digital, we prepare you to deliver this transformative value. Our curriculum bridges theoretical knowledge with practical expertise, ensuring you stand out as a proficient data analyst in any industry.



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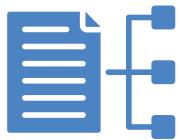


# Advanced Data Analytics with Python Libraries

## A Complete Overview

This course explores advanced data analytics and visualization techniques using Python libraries, enabling students to analyze complex datasets and create insightful visualizations. Designed for technical and non-technical learners, it prepares students for roles in data science and analytics through hands-on projects and real-world applications.

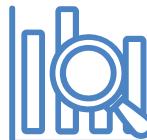
### Python Process Model



Data Acquisition  
and Cleaning



Exploratory Data  
Analysis (EDA)



Statistical  
Analysis



Data  
Visualization



Interactive  
Dashboards



### What you'll be learning

This course provides a comprehensive introduction to data analytics and visualization using Python libraries. Designed for beginners and those with some Python experience, the course covers both foundational and advanced data analysis concepts through hands-on practice and real-world examples. By the end of the course, students will be able to process, analyze, and visualize data with confidence. Emphasis is placed on leveraging Python's powerful libraries to perform statistical analysis, create visualizations, and build interactive dashboards for modern data-driven applications.





## Who is this course for



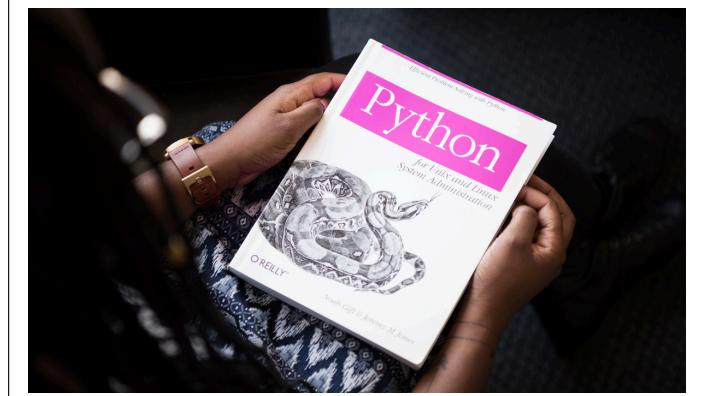
Beginners with basic Python or data skills



Intermediate users enhancing analytics and visualization expertise



Professionals in finance, healthcare, retail, technology, marketing, or research



Basic Python knowledge (e.g., variables, loops) recommended; data concepts a plus

## What You'll Take On

You'll harness Python libraries to transform raw data into powerful, insight-driven visualizations. Dive into data cleaning, conduct exploratory data analysis, build statistical models, create compelling visualizations, and develop interactive dashboards. Your expertise will uncover meaningful patterns and deliver actionable insights, empowering data-driven solutions across diverse industries.



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## Why Should You Invest in the Course?

**25%**

Market growth  
from 2020 to 2030

**101,000+**

Job Vacancies  
in India

**4 LPA**

Python Data Analyst  
freshers' average salary

**75%**

Job Satisfaction

**32%**

India's share in the  
global market



### Top Companies Hiring Python Data Analyst



J.P.Morgan



and many more....

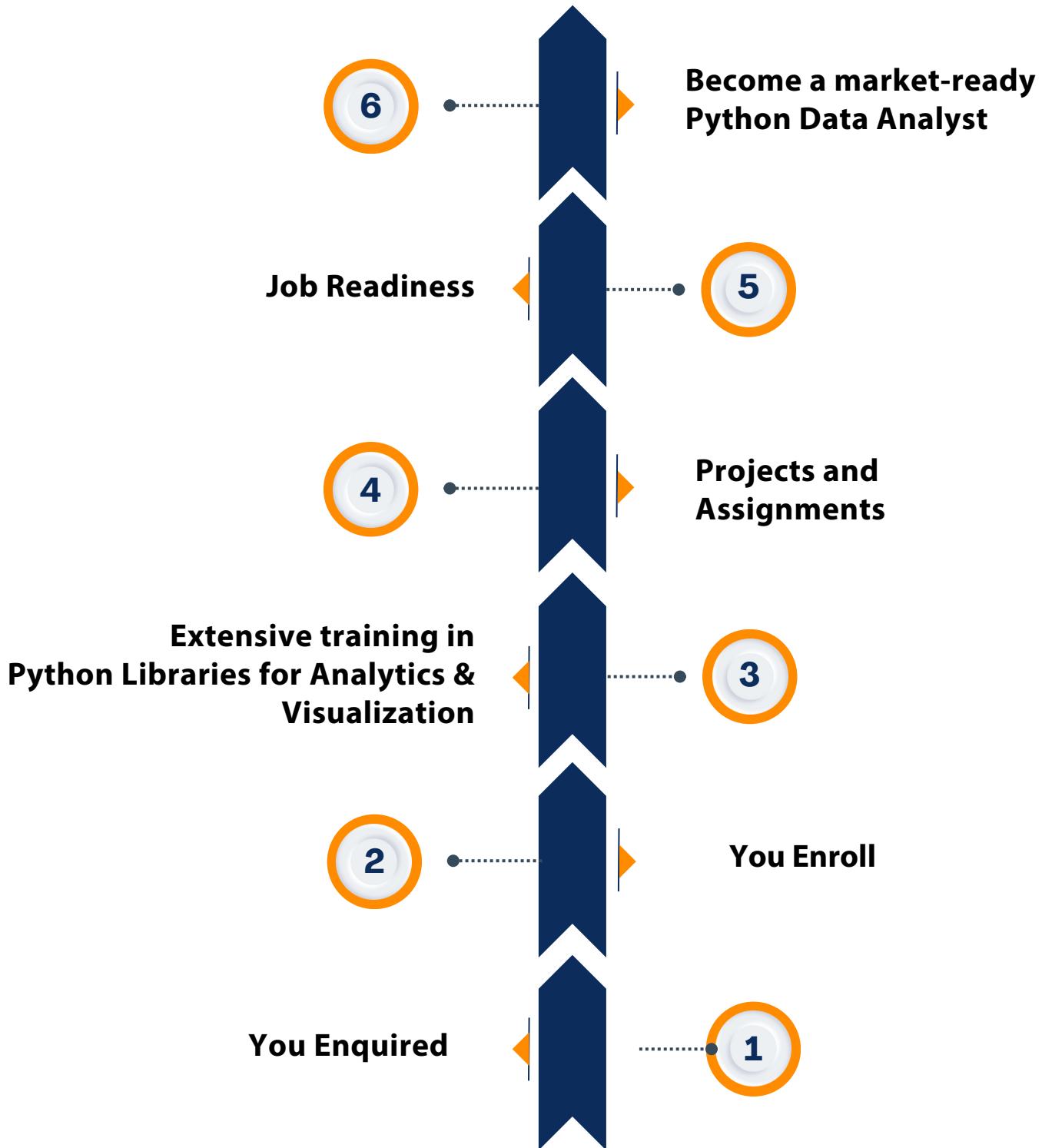


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# Learning Path





## Cinute Digital Pvt. Ltd. In Action





# Know Your Future As Advance Python Data Analyst

## Job Roles You Can Apply For

**Data Analyst**

**Business Intelligence Analyst**

**Data Scientist**

**Research Analyst**

**Operations Analyst**

**Supply Chain Analyst**

**Financial Analyst**

**Marketing Analyst**

**HR Analyst**





## Mode of Learning



**CLASSROOM**

**+**

**ONLINE**

CDPL has a Hybrid (**CLASSROOM + ONLINE**) training pattern where students have the opportunities to attend the sessions in **classroom** as well as **online**. CDPL trainers conduct the training sessions live from CDPL classrooms. All CDPL sessions are live streamed for students from that batch, also the learners are provided with the live recording sessions, thus enabling students to attend the same sessions online and interact with the trainer as well as other students.





All our certificates are validated with a unique authorization QR code.

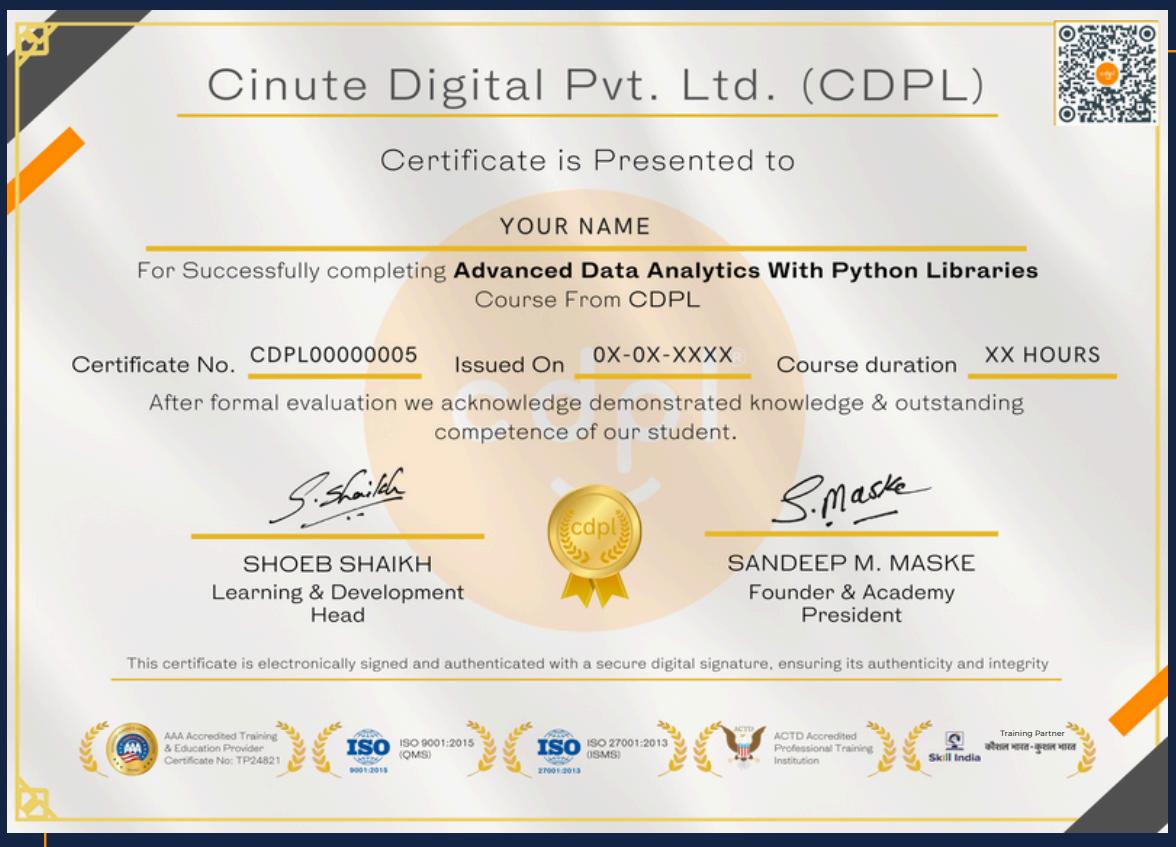




## Our Certification

We will be issuing a certificate from **Cinute Digital** with a unique QR code to validate from our portal. This certificate will be issued once completed with all assessment and mock interview processes.

# Python Libraries





# Cinute Digital Pvt. Ltd. Working With Top Global Companies

 TECHCRYPTORS	 Axiom Technologies LLP
 MediVenturz	 ARYAN TECHNOLOGIES
 LENDING TECH SOLUTIONS	 IDfy
 Tech Mahindra	 Galentic
 Interactive Brokers	 Techno Scripts <small>(An ISO 9001:2015 Certified Company)</small>
 testriq®	 VISTAAR <small>ENVISION THE POSSIBILITIES</small>
 JM FINANCIAL 50 YEARS	 marqetrix <small>web solutions</small>
 SP ULTRAFLEX <small>systems pvt limited</small> Make <small>OUR EXPERIENCE</small> work to <small>YOUR ADVANTAGE</small>	 raw engineering™
 accenture	 TransUnion tu CIBIL





## Tools & Technologies You Will Learn



**matplotlib**

 **pandas**



 **NumPy**

 **plotly**





# Course Curriculum

## ADVANCE DATA ANALYTICS

### Advanced Data Analytics with Python Libraries

#### Module 1: Python Fundamentals

##### 1. Introduction to Python Programming

- Overview of Python Programming
- Basic Syntax, Variables, and Data Types

##### 2. Core Python Concepts

- Control Structures: Conditionals and Loops
- Functions, Modules, and Script Execution

#### Module 2: Introduction to Python Visualization and Environment Setup

##### 1. Python for Visualization

- Python for Visualization: An Overview
- Key Python Libraries for Data Visualization

##### 2. Environment Setup

- Installing Python and Setting Up Jupyter Notebook
- Environment Setup on Windows, macOS, and Linux

#### Module 3: Machine Learning Basics

##### 1. Introduction to Machine Learning

- What is machine learning and why does it matter?
- Supervised vs. unsupervised learning

##### 2. A Glimpse into Model Building

- Demonstration of a simple classification model (e.g., logistic regression)
- Overview of basic evaluation metrics like accuracy and ROC curve





# Course Curriculum

## Module 4: Data Analysis with Pandas

### 1. Introduction to pandas

- Overview of Pandas
- Understanding DataFrames & Series

### 2. Working with External Data Sources

- Importing / Exporting DataFrames (CSV, Excel, JSON)
- Saving cleaned Data for Future Analysis

### 3. Data Exploration and Cleaning

- Loading & Summarizing Datasets
- Handling Missing & Duplicate Data

### 4. Data Manipulation and Transformation

- Filtering, Sorting, Ranking & Renaming Data
- Data Type Conversion & Pivot Tables

### 5. Advanced Data Manipulation Techniques

- Merging, Joining & Concatenating Data Frames
- Grouping, Aggregating & Multi-Indexing

### 6. Exploratory Data Analysis (EDA) with Pandas

- Descriptive Statistics & Data Distribution Analysis
- Correlation & Covariance

### 7. Cancer Data Analysis Case Study

- End-to-End Case Study: From Data Cleaning to Visualization
- Creating Dashboards from the Cancer Dataset

### 8. Hands-On Projects

#### 1. Project

- Analysing Patient Survival Rates in the Cancer Dataset

#### 2. Project

- Visualizing Cancer Incidence and Mortality Statistics





# Course Curriculum

## Module 5: Data Visualization with Matplotlib

### 1. Introduction to Matplotlib

- Overview, Installation & Setup
- Basic Plotting with Matplotlib

### 2. Customizing Plots

- Titles, Axis Labels, Legends & Annotations
- Setting Axis Limits & Date/Time Formatting

### 3. Figures, Axes, and Advanced Plot Types

- Managing Multiple Plots & Subplots
- Advanced Visuals: Histograms, Box Plots, Heatmaps, 3D Plotting

### 4. Visualization with Annotations and DataFrames

- Text Annotation Techniques
- Direct DataFrames Visualization (line, bar, and pie charts)

### 5. Interactivity and Animation

- Creating Simple Animations
- Interactive Plotting with Widgets (Adding Sliders, Buttons)

### 6. Best Practices for Effective Visualizations

- Choosing the Right Plot & Simplifying Visuals
- Clear Labelling, Legends & Color Schemes

### 7. Case Studies and Real-World Applications

- End-to-End Visualization Projects
- Domain-Specific Applications

### 8. Hands-On Projects

#### 1. Project

- HR Data Plotting

#### 2. Project

- Real-Time Data Monitoring with Animations





# Course Curriculum

## Module 6: Advance Visualization with Seaborn

### 1. Introduction to Matplotlib

- Overview, Built-in Themes & Color Palettes
- Statistical Visuals Support

### 2. Basic Plotting with Seaborn

- Line, Bar, Histogram, Scatter
- Data Exploration & Trend Analysis

### 3. Statistical Visualization Techniques

- Distribution Visuals: Hist, KDE, Rug
- Variable Relationships: Pair & Joint Plots

### 4. Categorical Data Visualization

- Categorical Displays: Strip, Box, Violin
- Swarm Plots & Bar Plots

### 5. Advanced Visualization Techniques

- Heatmaps, Cluster Maps & Hierarchical Clustering
- Multi-Plot Grids: Pair & Facet

### 6. Customization and Aesthetics in Seaborn

- Themes, Plot Styles & Aesthetic Adjustments
- Titles, Axis Labels, Legends & Figure Size

### 7. Integration with pandas and Data Analysis

- Direct DataFrames Visualization
- Data Aggregation Integration & EDA

### 8. Hands-On Projects

#### 1. Project

- Titanic Survival Analysis

#### 2. Project

- Financial Dataset Visualization





# Course Curriculum

## Module 7: Scientific Computing and Visualization with NumPy

### 1. Introduction to NumPy

- Overview & Key Features
- Installation and Setup

### 2. Numpy Basics

- Arithmetic and Mathematical Operations (sum, mean, etc.)
- Indexing, Slicing, and Subarrays

### 3. Numpy Arrays

- Arrays vs Python Lists
- Creating 1D/2D/Multi-Dimensional Arrays

### 4. Data Preparation with NumPy

- Random Data Generation (np.random)
- Reshaping, Resizing, Broadcasting

### 5. Mathematical Functions

- Functions, exponents, logarithms
- Linear algebra (dot product, matrix multiplication)

### 6. Advanced Indexing

- Boolean indexing & Fancy indexing
- Conditional selection (using np.where)

### 7. Case Studies and Real-World Applications

- End-to-End Visualization Projects
- Domain-Specific Applications

### 8. Hands-On Projects

#### 1. Project

- Analysing Patient Survival Rates in the Cancer Dataset

#### 2. Project

- Visualizing Cancer Incidence and Mortality Statistics





# Real-Time Projects

## DOMAIN KNOWLEDGE



**1 Domain: Technology**

**User Engagement Analysis for a Tech Startup App**

This project involves analyzing user engagement data (e.g., session duration, feature usage, retention rates) for a tech startup's mobile app. The goal is to create visualizations and dashboards to identify user behavior trends and improve app features.

**Skills:** Data Analytics, Pandas, Matplotlib, Plotly, Domain Knowledge (Technology)

**2 Domain: Energy**

**Audience Engagement Analysis for a Digital Media Platform**

This project focuses on analyzing historical energy consumption data to forecast future demand for a utility company. The objective is to use statistical models and visualizations to support energy planning and sustainability initiatives.

**Skills:** Data Analytics, Pandas, SciPy, Seaborn, Domain Knowledge (Energy)





# Cinute Digital Pvt. Ltd. Our Trainers



## **SHOEB SHAIKH**

HEAD - LEARNING & DEVELOPMENT  
*SR. TEST AUTOMATION ENGINEER*

Shoeb Shaikh is a seasoned Software Testing and Data Science expert and a mentor with over 13 years of experience in the field.



## **VAIBHAV KAKADE**

*QUALITY ANALYSIS ENGINEER*

Experienced Software Test Engineer with proficient knowledge in Manual Testing, Defect Tracking/Reporting, DBMS and API Testing.



## **REHMAT SHAIKH**

*DATA SCIENCE TRAINER*

Rehmat Shaikh is a skilled Data Science Trainer with 3+ years of experience, mentoring learners in Python, Machine Learning, and tools like Power BI, Tableau, SQL, and Pandas.



## **Cezzane Khan**

*AI & DATA SCIENCE ENGINEER*

Cezzane is an experienced Data Science Trainer with over three years of expertise, guiding students in AI, Machine Learning, DL and utilizing tools such as Power BI, SQL and Libraries.





## Cinute Digital Pvt. Ltd. Student Testimonial

### Arun Venu Panickar



It is a great institute to learn software testing. and our mentor Shoeb Sir is a great person, he helps you to understand concepts in a simple manner. Thank you.



### Faiz Khan



Everything about this course is great! From the comprehensive content to the engaging delivery, it's been an enlightening journey.



### Kishore Jha



This course is designed in an efficient and effective manner. The instructor is excellent and under his guidance I was able to learn a lot of new things.



### Krutika Penkar



I completed manual testing certification course from Cinute Digital. The course is well organized. Thank you Cinute.



### Ragini Kumari



Best training institute for learning. It has the best skilled faculty in my experience and they have placed me in a good company.



### Dakshali Merya



The instructor is highly skilled and the concepts are well comprehended.



## Some Of Our Reviews

**Justdial**

4.8 ★★★★★

**Sulekha**

5.0 ★★★★★

**Google**

4.8 ★★★★★



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## About the Placement Team

At Cinute Digital Pvt. Ltd., our Placement Team transforms your skills into career success. Comprised of industry experts and career coaches, we craft personalized strategies to build standout portfolios, optimize resumes and profiles, and connect you with top employers, including Test Leads and Test Managers. Our tailored interview prep and industry insights ensure you secure your dream role. Trust us to guide your journey to professional success.

## About the Placement-Head



At **Cinute Digital Pvt. Ltd.**, we have "**Ashish Shetty**" as our Placement Head, a dynamic leader transforming dreams into thriving careers. With unparalleled expertise and an unwavering commitment to placement excellence, He is the cornerstone of our mission to shape your professional future and propel you into the heart of the competitive tech industry.

He drives our placement strategy by crafting standout portfolios, optimizing resumes and profiles on platforms like Naukri, Indeed, Foundit, and LinkedIn, and building a robust professional network. By connecting you with working professionals, Test Leads, and Test Managers, he opens doors to mentorship and insider opportunities. His expert interview preparation equips you to crack the toughest interviews and secure your dream job. Under Ashish Shetty's visionary leadership at Cinute Digital Pvt. Ltd., you're not just prepared—you're unstoppable.





# Cinute Digital Pvt. Ltd. Placement Program



## Craft a Winning Portfolio:

Build a standout portfolio and network to showcase your skills and projects.



## Polish Your Resume:

Our experts will update your resume with the latest skills and projects.



## LinkedIn Profile Optimization

Boost your professional LinkedIn profile by adding your certifications on LinkedIn.



## Expand Your Reach:

Update your profiles on job portals like Naukri, Indeed, and Foundit.



## Interview Preparatory Sessions From Day 1

We provide intensive interview preparation right from Day 1 to prepare candidates for interviews.



## Ace Your Interviews:

Industry experts will conduct a SWOT analysis and give feedback on your interview performance, focusing on areas for improvement.



## Launch Your Career Journey:

Get our support to secure your ideal role and kickstart your professional path.





# Placement Drives at Cinute Digital Pvt. Campus





## Our Students Who Have Cracked Their Dream Career In

<b>Tech Mahindra</b> Dakshali Merya	<b>accenture</b> Sheetal Singh	<b>eClerx</b> Shrikanth Suri	<b>JM FINANCIAL</b> Kartik Bomble
<b>K</b> Bhagyesh Mahadik	<b>testriq</b> Latesh Kamble	<b>testriq</b> Tejal More	<b>i-XL Technologies</b> Rajvardhan Desai
<b>ALIF MANAGEMENT SERVICES PVT LTD</b> Arun Panicker	<b>ARYAN TECHNOLOGIES</b> Bhakti Raigawali	<b>Tech Mahindra</b> Satya Dutt	<b>testriq</b> Mohsin Patel
<b>raw engineering</b> Kishore Jha	<b>TECHCRYPTORS</b> Krutika Penkar	<b>MAXWELL</b> Insha Dosani	<b>IDfy</b> Jaynam Shah
<b>VISTAAR</b> Akash Yadav	<b>Tech Mahindra</b> Preksha Mehta	<b>testriq</b> Shreyash Pakhare	<b>Rendered IDEAS</b> Navin Joshi
<b>Reeble</b> Rucha Pawar	<b>CODEX Lancers</b> Abdul Mateen	<b>Axiom Technologies LLP</b> Muthukumaran Iyer	<b>PUNON Technologies Private Limited</b> Aaditya Bobade
<b>Tech Mahindra</b> Sunil Pillai	<b>testriq</b> Ashwini Badgujar	<b>Rendered IDEAS</b> Faiz Khan	<b>XR</b> Shrey Gupta

And many more<





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A Premier EdTech  
Company

## FOR ANY QUERIES, PLEASE CONTACT US



### Address

#### Head Office (CDPL)

Office: 1, 2 & 3, 2<sup>nd</sup> Floor, Ashley Towers, Kanakia Rd, Vagad Nagar,  
Beverly Park, Mira Road East, Mira Bhayandar, Maharashtra 401107

#### Study Center **MeghMehul Classes (Vasai)**

SHOP NO 7, Laxmi palace, opposite Vidhyavardhini Degree Engineering  
College, Gurunanak Nagar, Vasai West, Maharashtra 401202



### Web Address

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[contact@cinutedigital.com](mailto:contact@cinutedigital.com)



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