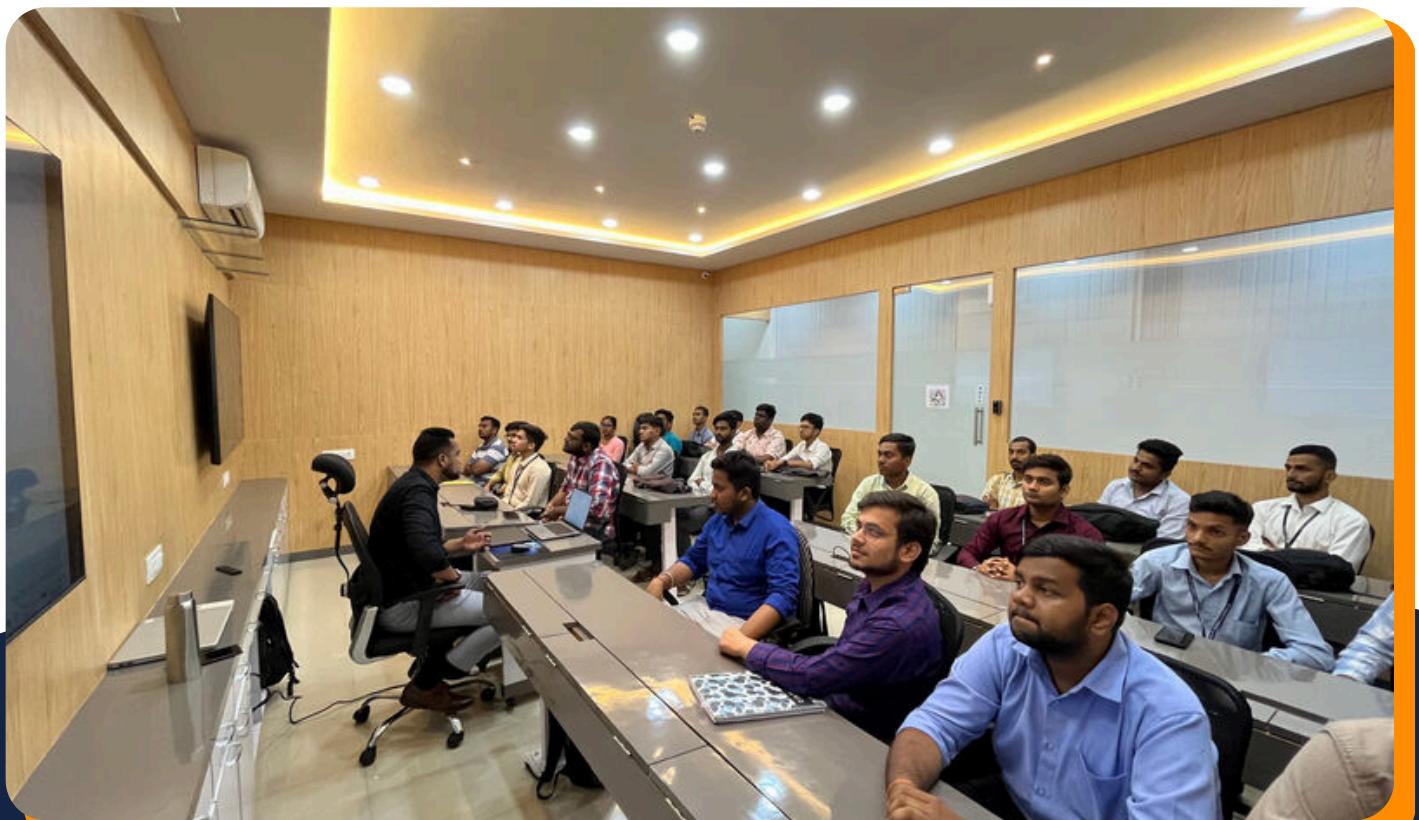




**Cinute Digital Pvt. Ltd.**  
A Premier EdTech Company

## LEADERS IN PROFESSIONAL TRAINING PROGRAMS



Duration  
**45** Hours

# MASTER PROGRAM IN **Machine Learning Algorithms using Python Programming**



#1 MUMBAI's PREMIUM  
TRAINING INSTITUTE

+91 788-83-83-788  
+91 806-27-85-870   
+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.



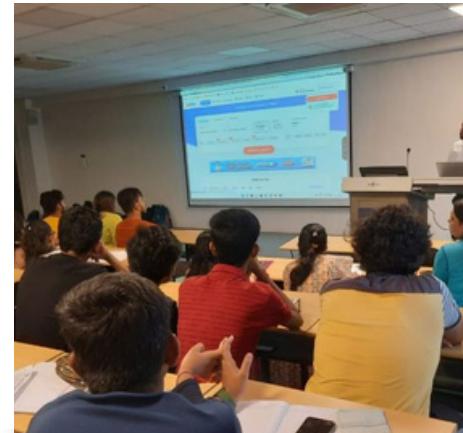
### **Our Vision**

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 Science in any industry.



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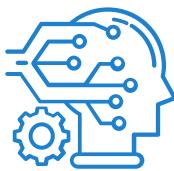


# Machine Learning Algorithms using python

## A Complete Overview

This course provides an in-depth exploration of machine learning algorithms using Python, equipping students with the skills to build, evaluate, and deploy predictive models. Designed for learners with some programming experience, it prepares students for careers in data science, artificial intelligence, and machine learning engineering through hands-on projects and real-world applications.

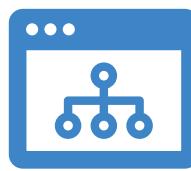
### Python Process Model



Foundations of  
Machine Learning



Data  
Preprocessing



Algorithm  
Implementation



Model Evaluation  
and Optimization



Deployment and  
Real-World  
Applications

### What you'll be learning

This course provides a comprehensive introduction to machine learning algorithms using the Python language. Designed for learners with some programming experience, the course covers both foundational and advanced ML concepts through hands-on practice and real-world examples. By the end of the course, students will be able to develop, evaluate, and deploy machine learning models with confidence. Emphasis is placed on writing efficient code, understanding algorithm theory, and applying ML to solve complex problems in data-driven environments.





## Who is this course for



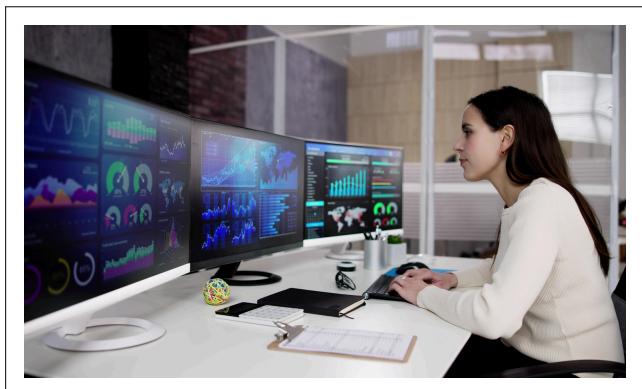
Ideal for learners with basic Python or programming skills



Perfect for students, developers, and analysts mastering ML with Python



Designed for professionals in technology, healthcare, finance, retail, or research



Suited for those transitioning to data science or AI roles

## What You'll Take On

You'll harness Python to design, train, and deploy predictive machine learning models that solve real-world challenges. Dive into data preprocessing, implement cutting-edge algorithms, evaluate and optimize models, and deploy intelligent solutions. Your expertise will drive impactful, data-driven decision-making 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

**9 LPA**

Machine Learning Engineer  
freshers' average salary

**75%**

Job Satisfaction

**32%**

India's share in the  
global market



### Top Companies Hiring Machine Learning Engineer



J.P.Morgan



and many more....

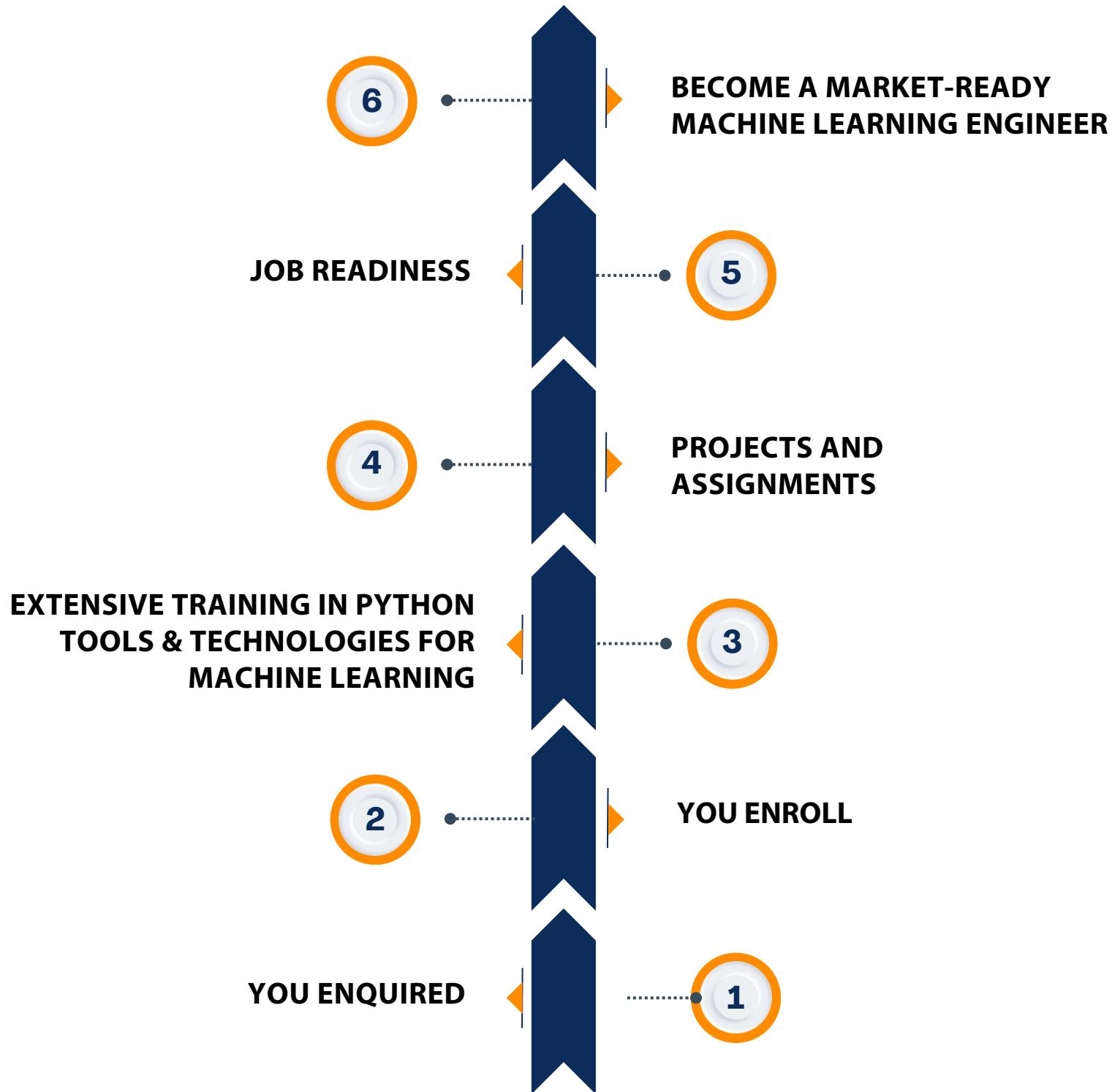


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## Learning Path





# Know Your Future As Advance Machine Learning Engineer

## Job Roles You Can Apply For

**Data Scientist**

**Machine Learning  
Engineer**

**Data Analyst**

**Business Intelligence  
Analyst**

**Software  
Engineer**

**Computer Vision  
Engineer**

**Predictive  
Modeler**

**Research  
Scientist**





## Cinute Digital Pvt. Ltd. In Action





## 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.

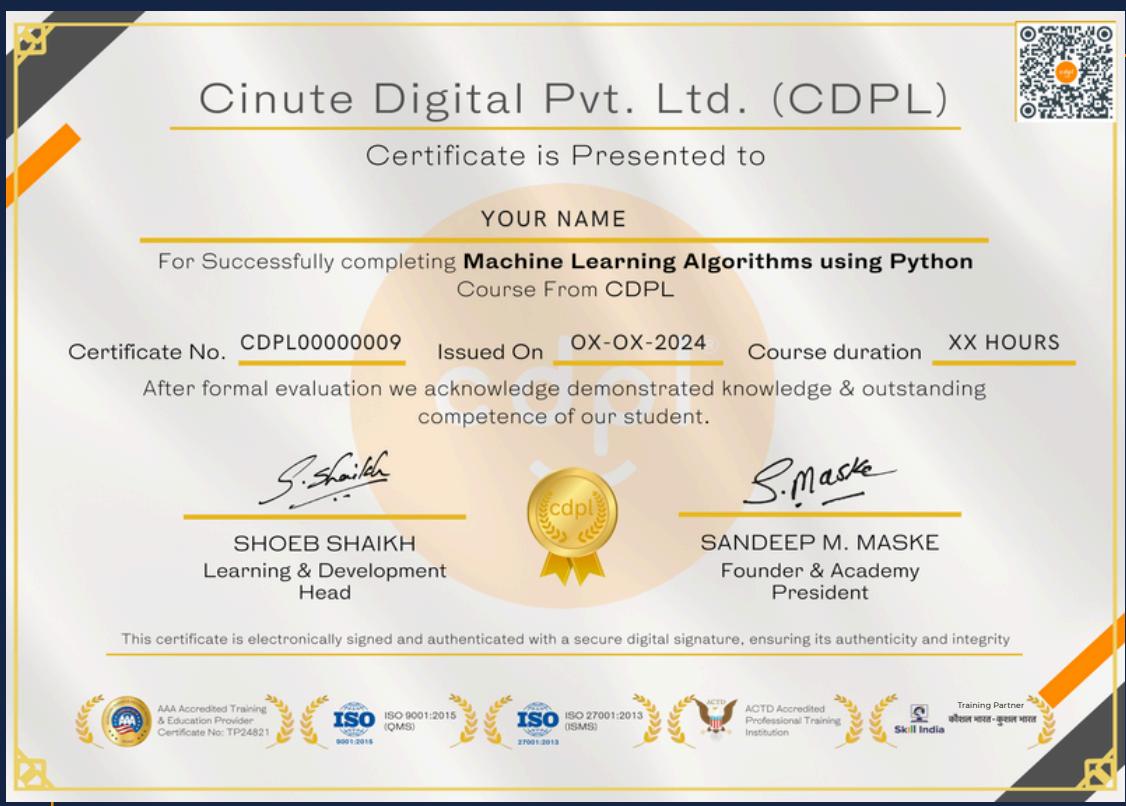




## Our Certification

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.

# Machine Learning Algorithms using Python Programming





# 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**





## Course Curriculum

# Machine Learning Algorithms with Python

## Module 1: Introduction To Python

### 1. Getting Started with Excel

- What is Machine Learning.
- Applications of Machine Learning.
- Supervised vs Unsupervised Learning.
- Python libraries suitable for Machine Learning.
- ML Workflow.

## Module 2: Data Preprocessing

### 1. Understanding Data Types in Excel

- Handling missing data: imputation, deletion strategies.
- Normalization and scaling: min-max scaling, standardization.
- Encoding categorical data: one-hot encoding, label encoding.
- Data splitting: training, validation, and test sets.

## Module 3: Supervised Learning - Regression

### 1. Understanding Data Types in Excel

- Linear Regression: Assumptions, least squares method.
- Polynomial Regression: Extending linear models.
- Regularization: Ridge and Lasso techniques.

## Module 4: Supervised Learning - Classification

### 1. Understanding Formulas and Functions

- Logistic Regression: Binary and multiclass classification.
- K-Nearest Neighbors (KNN): Distance-based classification.
- Decision Trees: Structure and interpretation.
- Random Forests: Ensemble learning basics.
- Support Vector Machines (SVM): Margins and kernels.





# Course Curriculum

## Module 5: Model Evaluation and Validation

### 1. Sorting and Filtering

- Regression Metrics: Mean Squared Error (MSE),  $R^2$ .
- Classification Metrics: Accuracy, precision, recall, F1 score, ROC-AUC.
- Overfitting and Underfitting: Causes and solutions.
- Cross-Validation: K-fold and stratified methods.
- Hyperparameter Tuning: Grid search and random search.

## Module 6: Unsupervised Learning

### 1. Sorting and Filtering

- K-Means Clustering: Algorithm and use cases.
- Hierarchical Clustering: Dendrograms and linkage methods.
- Principal Component Analysis (PCA): Reducing dimensionality.
- Density-Based Clustering

## Module 7: Capstone Project and Real-World Applications

### 1. Sorting and Filtering

- Project: Design and implement an end-to-end ML solution
- Real world Case Studies.





# Real-Time Projects

## DOMAIN KNOWLEDGE



1

### Domain: Healthcare



#### Disease Prediction Model for a Hospital

This project involves building a machine learning model to predict disease outbreaks based on patient data (e.g., symptoms, demographics) for a hospital. The goal is to improve early detection and resource allocation using Python.

**Skills:** Python, Scikit-learn, Data Preprocessing, Domain Knowledge (Healthcare)

2

### Domain: E-Finance



#### Fraud Detection System for a Bank

This project focuses on developing a fraud detection system using machine learning to analyze transaction data for a bank. The objective is to identify suspicious activities and enhance security measures with Python-based models.

**Skills:** Python, TensorFlow, Model Evaluation, Domain Knowledge (Finance)





# 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

**Tech Mahindra**  
Dakshali Merya

**accenture**  
Sheetal Singh

**eClerx**  
Shrikanth Suri

**JM FINANCIAL**  
Kartik Bomble

**K**  
Bhagyesh Mahadik

**testriq**  
Latesh Kamble

**testriq**  
Tejal More

**i-XL Technologies**  
Rajvardhan Desai

**ALIF MANAGEMENT SERVICES PVT LTD**  
Arun Panicker

**ARYAN TECHNOLOGIES**  
Bhakti Raigawali

**Tech Mahindra**  
Satya Dutt

**testriq**  
Mohsin Patel

**raw engineering**  
Kishore Jha

**TECHCRYPTORS**  
Krutika Penkar

**MAXWELL**  
Insha Dosani

**IDfy**  
Jaynam Shah

**VISTAAR**  
Akash Yadav

**Tech Mahindra**  
Preksha Mehta

**testriq**  
Shreyash Pakhare

**Rendered IDEAS**  
Navin Joshi

**Reeble**  
Rucha Pawar

**CODEX Lancers**  
Abdul Mateen

**Axiom IT Technologies LLP**  
Muthukumaran Iyer

**PUNON Technologies Private Limited**  
Aaditya Bobade

**Tech Mahindra**  
Sunil Pillai

**testriq**  
Ashwini Badgujar

**Rendered IDEAS**  
Faiz Khan

**XR**  
Shrey Gupta

And many more<





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## 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

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



### Mail

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



### Call

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