



Discover the power of data and the potential of Al. Join our Data Science with Generative Al course to master techniques that drive innovation, transforming raw data into predictive insights and creative solutions.







ABOUTUS

At TechU, we bridge the gap between academic learning and real-world application. By integrating theoretical education with hands-on project experience, we equip students with the essential skills and expertise needed to thrive in their chosen careers.

Corporate training

Cross functional teams

Valuable insights

Real-time projects

Professional guidance

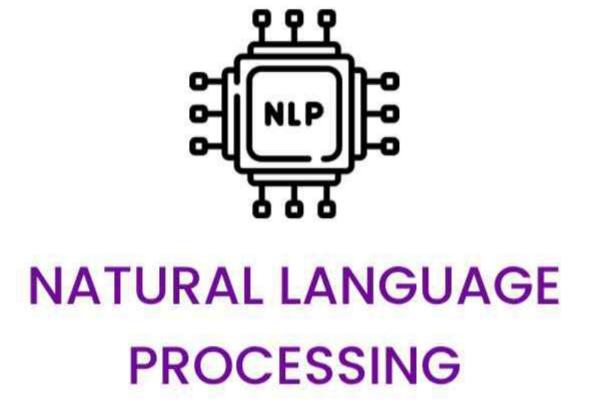
Robust Portfolio

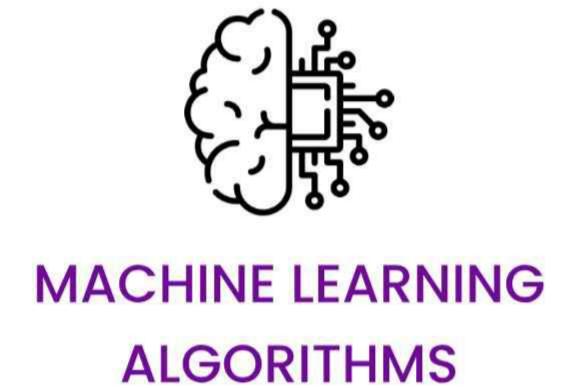
SKILL SETS COVERED





DATA ANALYTICS/
BUSINESS ANALYTICS









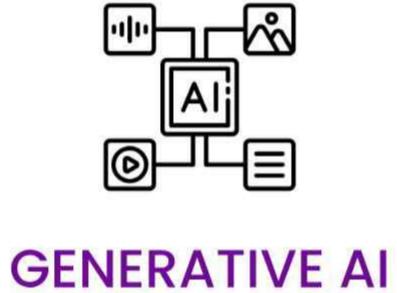
ENSEMBLE TECHNIQUES



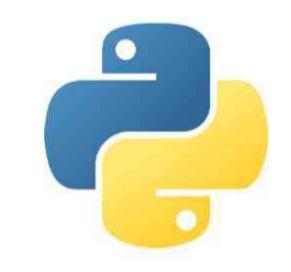
DATA VISUALIZATION



FORECASTING ANALYTICS GEN



TOOLS & TECHNOLOGIES YOU WILL LEARN

























Why Choose Us

What Makes TechU Different We Don't Just Teach. We Transform. From Beginner To Project-Ready — We Guide Every Step Of Your Journey.

500+

Student Enrolled

800+

Class Completed

104

Top Instructors

450+

Positive Reviews

100%

Satisfaction Rate

Benefits Beyond Learning



LINKEDIN PROFILE



RESUME WRITING



SOFT SKILLS



INTERVIEW PREPARATION



KEY HIGHLIGHTS

CURRICULUM BACKED BY INDUSTRY EXPERTS

Get Trained With Content Curated By Professionals Who Understand Current Job Market Needs

MENTORSHIP FROM WORKING PROFESSIONALS

Learn Directly From Experts Who Know What Companies Are Actually Looking For

START AT YOUR LEVELS

Choose From Beginner Or Advanced Tracks Based On Your Current Skill Set — No Prior Experience Required

BLENDED LEARNING MODEL

Enjoy The Flexibility Of Both Classroom Sessions And Interactive Online Learning

PRACTICAL, PROJECT-BASED LEARNING

Gain Hands-On Experience Through Coding Assignments, Real-World Tools, And Simulations

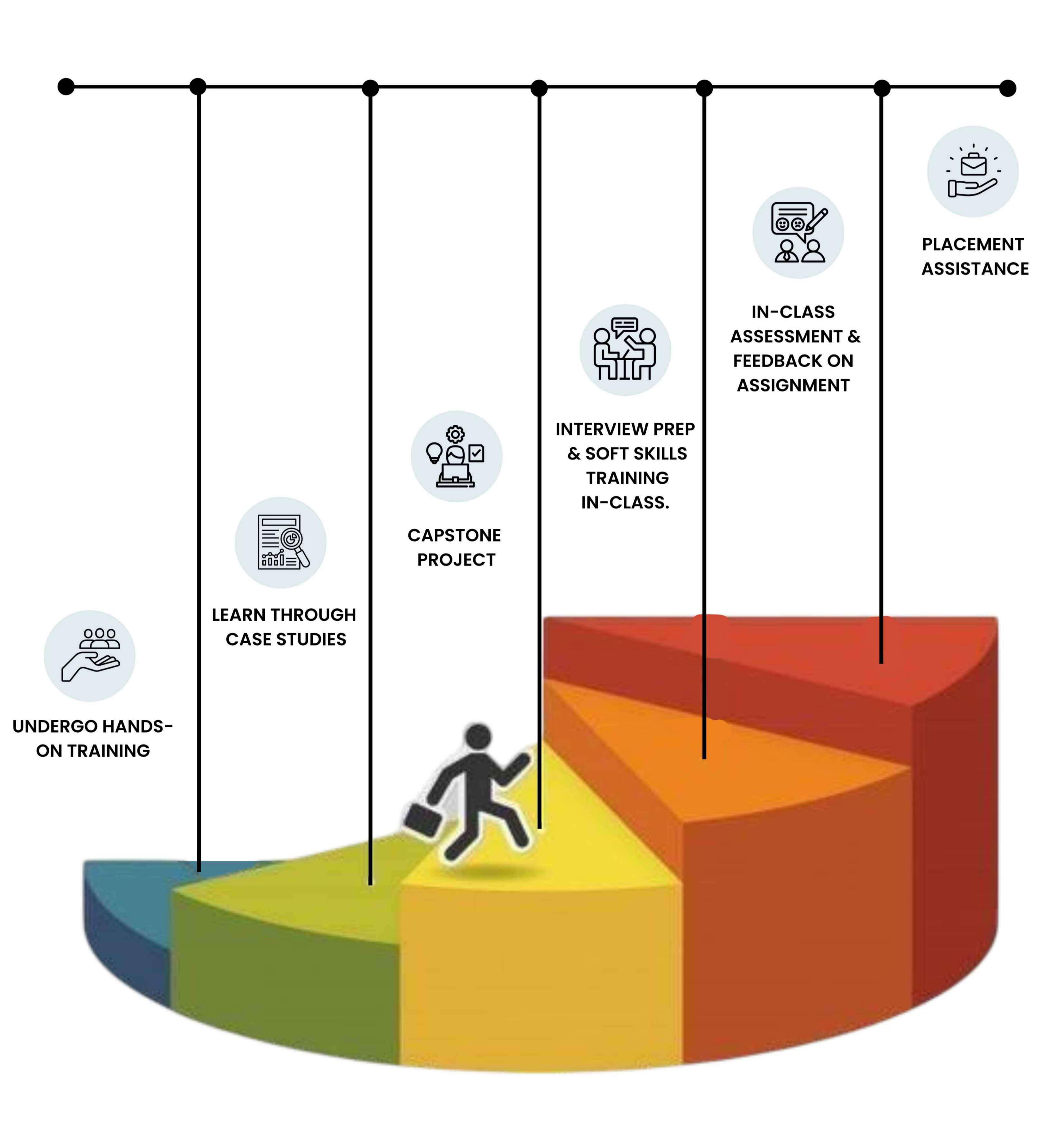
REAL-WORLD READINESS

Work On Actual Case Studies And Apply Your Skills In Real-Time Industry Scenarios

DEDICATED CAREER SUPPORT

From Resume Building To Mock Interviews And Internship Guidance — We've Got Your Back

Learning Path



MODE OF LEARNING

CLASSROOM TRAINING







Classroom + Online + Backup Access

At TechU, We Offer A Flexible Hybrid Learning Model That Allows Students To Attend Sessions Either In The Classroom Or Live Online From Anywhere

Build A Career That's Globally Credible & Nationally Recognized

TechU Innovations Lab Pvt. Ltd. Proudly Holds Multiple Prestigious Recognitions To Ensure Top-Quality Education And Industry-Ready Training For Our Students. **North Carolina Affiliated:** Internationally Aligned Curriculum Matching Global Education Standards.

ISO Certified: Processes And Training Methods Meet Globally Recognized Quality Standards.

NSDC Partner: Official Partnership With The National Skill Development Corporation (NSDC) For Industry-Relevant, Skill-Based Training And Job Placement Support.

At TechU Innovations Lab Pvt. Ltd., These Accreditations Reflect Our Commitment To Delivering Trusted, Credible, And Impactful Education.

PREMIUM PROGRAM CURRICULUM

Module 1

Advanced Excel

- Data MAnipulations
- conditional statements
- Aggrigate functions
- charts and Plots.
- Fabrication of Dashboards
- Working with Lookups
- Macro's
- Goal Seek Analysis.
- Joins of tables

Module 2

Introduction to Python

- Program Introduction
- Operators
- Data Types

Module 3

LIST & TUPLE

- List Creation & Operations
- List Comprehensions, Slicing & Indexing
- Tuple Creations, Operations & Slicing & Indexing
- Practical Exercise: Implement List & Tuple to solve concise real-life problems.

Module 4

DICTIONARY & SETS

- Dictionary creation, basic operations, manipulation & comprehensions
- Set Creation and Manipulations Common Operations on Dictionary Sets and z
- Practical Exercise: Work with dictionaries and sets to solve real-life problems.

Module 5

NUMPY

- Work with NumPy Arrays
- Effecient Indexing and Slicing
- Filtering and Boolean Indexing
- Practical Exercise: Work with NumPy arrays to perform basic array operations, indexing, and Itering.

Module 6

Pandas Fundamentals

- 1. Working with Data Frames
- 2. Data Manipulations
- 3. Data Cleaning and Cleansing.
- 3. Series and DataFrame Structures
- 4. working with Pandas Functions.
- 5. Exploratory Data Analysis on Datasets

Module 7

DATA MANIPULATION WITH PANDAS & DATA VISUALIZATION

- Master Pandas Data Structures
- Explore Data and Visualize Insights
- Practical Exercise: Load and explore a dataset using Pandas and create basic data visualizations using Matplotlib and Seaborn.

Module 8

INTRODUCTION TO SQL & BASIC QUERYING

- SQL for Data Retrieval
- Data Modeling Fundamentals
- Advanced Data Sorting and Filtering
- Practical Exercise: Write SQL queries to retrieve and manipulate data from sample database

Module 9

ADVANCED SQL CONCEPT & DATA MANIPULATION

- Temporary Tables and Documentation
- Aggregations and Grouping Data
- Advanced SQL Operations and Joins
- Practical Exercise: Perform more complex SQL operations, such as joining and aggregating data.

Module 10

FUNDAMENTALS OF STATISTICS & PROBABILITY

- Understand Data.
- Central Tendency and Variance.
- Probability and Distribution Basics.
- Practical Exercise: Calculate mean, median, variance, and standard deviation.

Module 11

ADVANCED STATISTICS & HYPOTHESIS TESTING

- Hypothesis Testing Techniques Interpret Data Visualizations
- Correlation, Regression, and ANOVA.
- Practical Exercise: Perform hypothesis tests and analyze real datasets using statistical techniques.

Module 12

INTRODUCTION TO MACHINE LEARNING AND REGRESSION BASICS

- Dive into Machine Learning.
- Data Preprocessing Essentials.
- Linear Regression for Predictive Modeling.
- Practical Exercise: Implement a simple linear regression model and evaluate its performance.

Module 13

MULTIPLE LINEAR REGRESSION & MODEL EVALUATION

- Evaluate Models with MAE, MSE, RMSE, R2 Score.
- Multiple Linear Regression.
- Practical Model Evaluation with Real Data.
- Practical Exercise: Build and evaluate a multiple linear regression model using a realworld dataset.

Module 14

LOGISTIC REGRESSION AND CLASSIFICATION METRICS

- Master Logistic Regression
- Classication Metrics for Model Assessment
- Practical Exercise: Train and evaluate logistic regression models for binary and multiclass classication problems.

Module 15

SUPPORT VECTOR MACHINES (SVM) AND K-NEAREST NEIGHBORS (KNN)

- Classication with SVM
- K-Nearest Neighbors for Predictions
- Choose K and Distances

Module 16

DECISION TREES AND ENSEMBLE METHODS

- Understand Decision Trees
- Prevent Overfitting and Tree Pruning
- Explore Random Forest and Gradient Boosting
- Practical Exercise: Create decision tree models and explore the power of ensemble methods

Module 17

MODEL EVALUATION AND VALIDATION TECHNIQUES

- K-Fold Cross-Validation
- Hyperparameter Tuning
- In-Depth Classication Metrics
- Practical Exercise: Apply K-fold cross-validation and hyperparameter tuning to improve model performance.

Module 18

STREAMLIT / FLASK

- Building Large-scale, data-driven applications
- Develop Enterprise-level web applications
- Create Projects with a built-in admin interface and form handling
- Provides Rapid prototyping with built-in tools and a well-defined structure

Module 19

RECOMMENDATION ENGINES

- Understand the core principles and algorithms behind recommendation systems.
- Build and implement content-based recommendation systems using Python.
- Design and deploy hybrid systems that combine multiple recommendation techniques for enhanced performance.
- Evaluate recommendation models using industry-standard metrics and optimization
 Techniques.

Module 20

UNSUPERVISED LEARNING

- Discover K-Means Clustering
- Hierarchical Clustering Techniques
- Clustering for Data Insights
- Practical Exercise Implement Means clustering and hierarchical clustering on real

Module 21

TIME SERIES MODELLING WITH ARIMA AND SARIMA

- Understand Time Series Data.
- Build ARIMA and SARIMA Models.
- Practical Forecasting and Model Evaluation.
- Practical Exercise: Analyze and forecast time series data using ARIMA and SARIMA models.

Module 22

INTRODUCTION TO DEEP LEARNING

- Overview of Artical Neural Networks.
- Basic Deep Learning Concepts.

- Build and Train Simple Neural Networks.
- Practical Exercise Build and train simple neural network on a data using deep learning frameworks.

Module 23

DEEP LEARNING ARCHITECTURES AND TRAINING

Dive into CNNs and RNN

- Train Deep Learning Models (ANN).
- Avoid over fitting with Regularization.
- Practical Exercise Create and train Convolution neural networks (CNNs) and Recurrent Neural Networks (RNNs) for various tasks

Module 24

NATURAL LANGUAGE PROCESSING (NLP)

- Introduction to NLP, Challenges & Key Tasks.
- Pre-process Text Data.
- Create Text Classication Models.
- Practical Exercise: Perform text preprocessing and build a text classication model using NLP techniques.

Module 25

END TO END DATA SCIENCE PROJECT -01

- Understanding end-to-end Data
- Model Development, Interpretation & business recommendation
- Introduction to Deployment
- Practical Exercise: Deploy a machine learning model as a web API and monitor its performance.

Module 26

END TO END DATA SCIENCE PROJECT - 02

- Understanding Deep Learning & NLP Business Problem
- Model Evolution and Deployment
- Practical Exercise: Deploy a machine Deep Learning & NLP as a web API and monitor its performance.

Module 27

POWER BI

- Introduction to Power BI
- Data Transformation and Modeling
- Create Interactive Dashboards
- Practical Exercise: Transform data and create interactive dashboards in Power BI using real-world datasets.
- DAX Queries and Data Transformations.

Module 28

Generative Al Basicsrd

- Fine-tuning LLMs for Specific Tasks
- Practical Exercise: Implementing ne- tuning code with Hugging Face libraries using your own custom data.
- Prompt Engineering.
- Building chatbot using pre-trained Algorithms.

ADVANCED PROGRAM CURRICULUM

PREMIUN



GENERATIVE AI ADVANCED,
HTML, CSS

Module 1

ADVANCED FINE-TUNING AND MODEL EVALUATION

- Prompt engineering and its impact on generated text
- Text-to-Speech and Speech-to-Text Integration with Hugging Face
- Practical Exercise: Fine-tuning and evaluation with Advanced Techniques and Textto-Speech/ Speech-to-Text.

Module 2

BUILDING A REAL-LIFE CHATBOT

- Designing and Developing a Chatbot
- Integrating fine-tuned LLM models for text generation, dialogue, and text- to-speech/ speech-to-text
- Building the chatbot interface and user interaction ow
- Practical Exercise: Deploying customized chatbot using Gradio.

Module 3

CSS FRAME WORK BOOTSTRAP:

- Introduction to CSS
- CSS Syntax & Selectors
- Colors and Backgrounds
- Text and Fonts
- Layout and Positioning
- Flexbox
- CSS Grid
- CSS Transitions and Animations
- CSS Pseudo-classes & Pseudo-elements
- Advanced Styling

Module 4

HTML:

- HTML and CSS Overview
- Deep Dive into HTML
- Practical Examples with Forms
- CSS Selectors and Layouts
- Fonts, Colors, Typography
- HTML Document Structure
- Text Formatting Tags
- HTML Elements
- Links and Navigation
- Images and Multimedia
- HTML Tables
- HTML Forms
- HTML Attributes
- HTML APIs & Integrations
- HTML Entities and Symbols





Program Fees Generative AI & Agentic AI Development

	Premium	Advanced
Welcome Kit		
Laptop		
Live Sessions And Mentorship		
Recorded Sessions		
Real Work Experince		
Job Ready Portfolio		
Career Guidance	Job Assistance	Job Guarantee
Project Based Learning		
Lms Access		
Study Material		
Course Duration	4 Months + 2 Months Internship	4 Months + 6 Months Internship
Doubt Clearing Sessions	Group Sessions	1-On-1 Mentorship
Completion Certificate		
LOI And Offer Letter		
Experience Certificate		
2 Years Bond		
Mock Tests	04	15
Placement Opportunities	Upto 5	Unlimited
Internship Exams		Yes (6 Exams)
Package		3-6 LPA
Fee Structure (including GST)	82600 /-	1,75000/-

OUR CLIENTS

















J.P.Morgan





























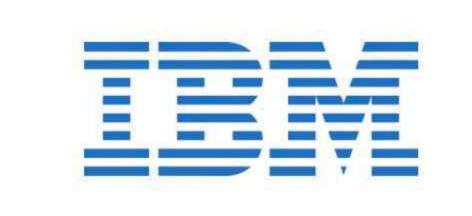














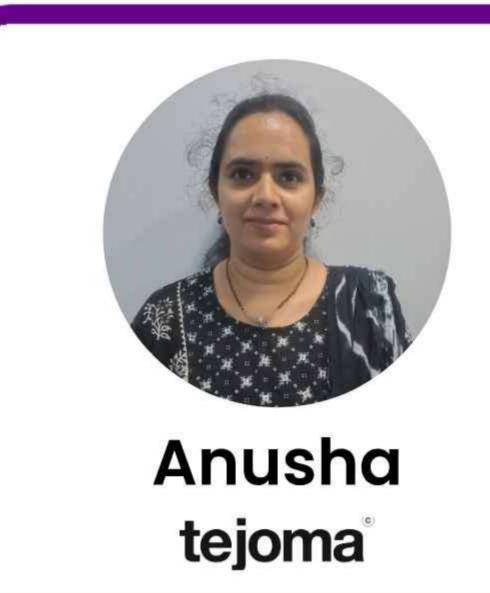




TechU Achievers





























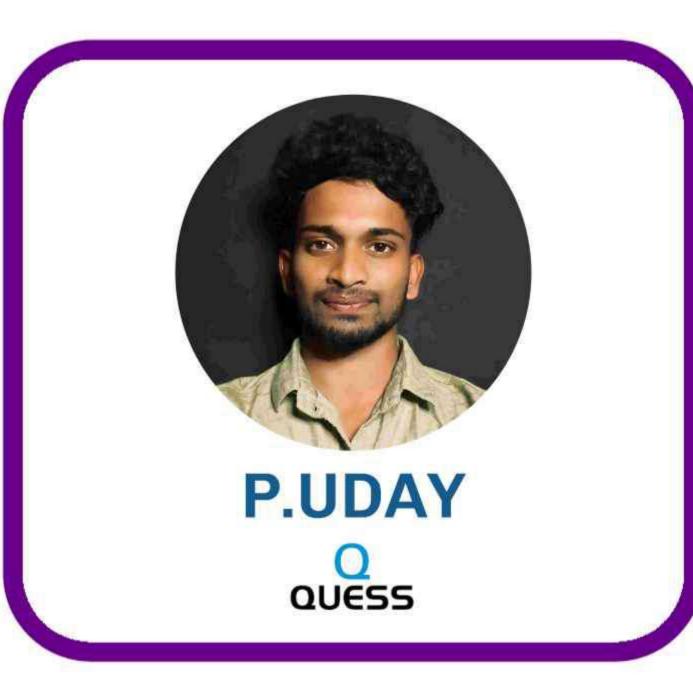












TechU Achievers



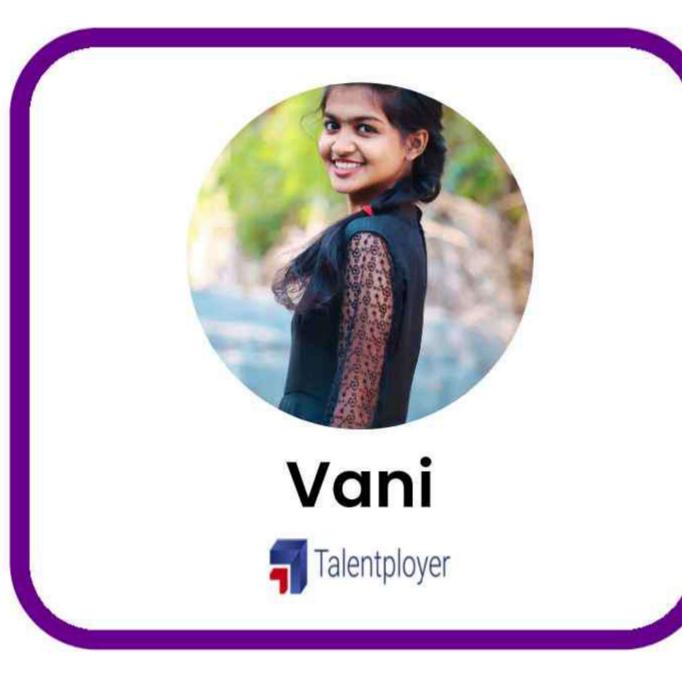










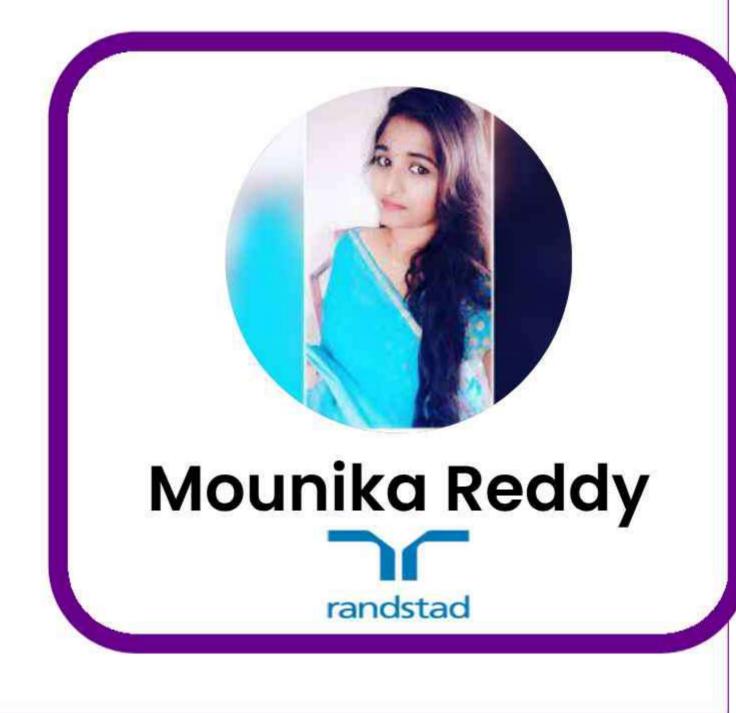




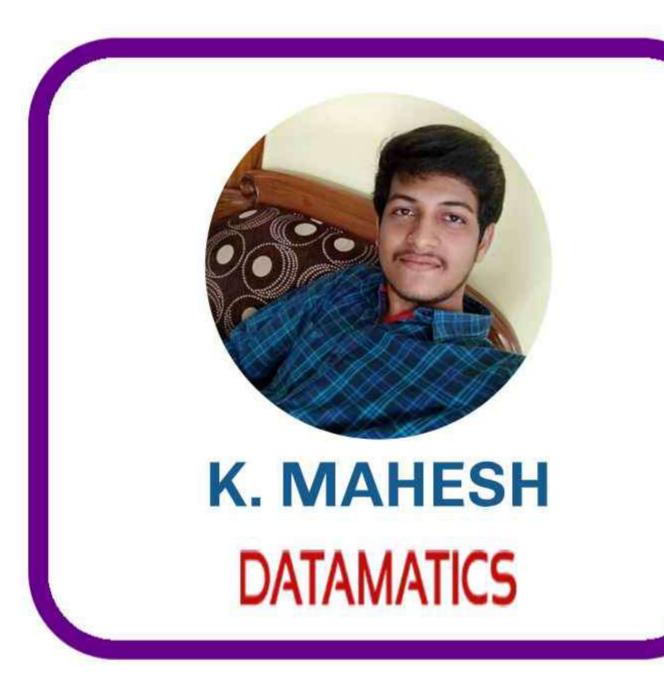










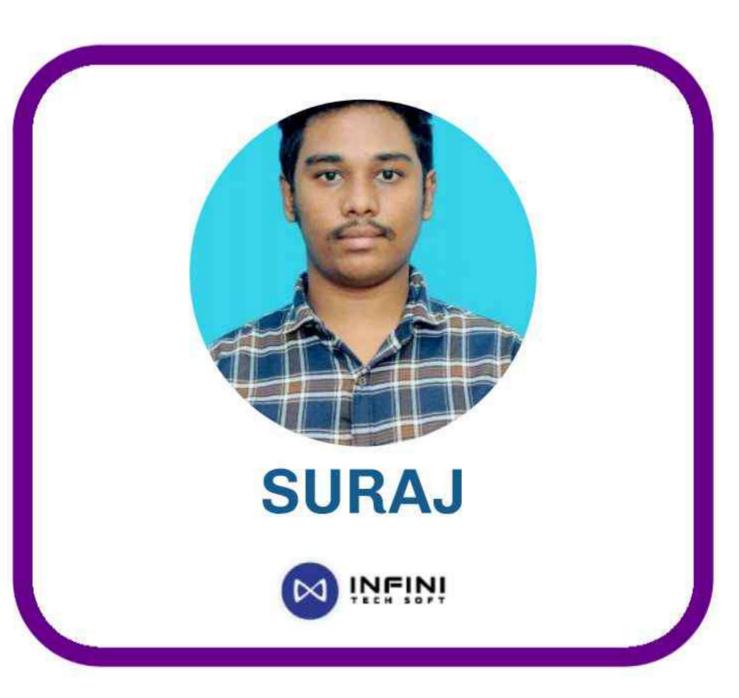














Career Services









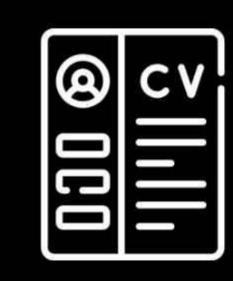
Real time projects

Live Mentoring

Communication Club







Resume & Portfolio Building



100% Job Assistance

Become Job Ready

Duration

4 Months Training + 2 Months Internship



Your Tech Journey Starts Here!

Thank you for choosing TechU. Start your learning adventure with us, where every step takes you closer to tech mastery. Let's build a future filled with knowledge and success together!



Scan this QR code to learn more about our courses



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- 101 Capital Park, Image Gardens, Madhapur, Hyderabad 500081.