

Master the Art of **DATA SCIENCE**



Transform Data
into Insights,
and Insights into
Opportunities.

MET - Empowering Future Data Scientists



*India's First-Ever Institute
to Offer*

**AI-ASSISTED MOCK
INTERVIEWS!**

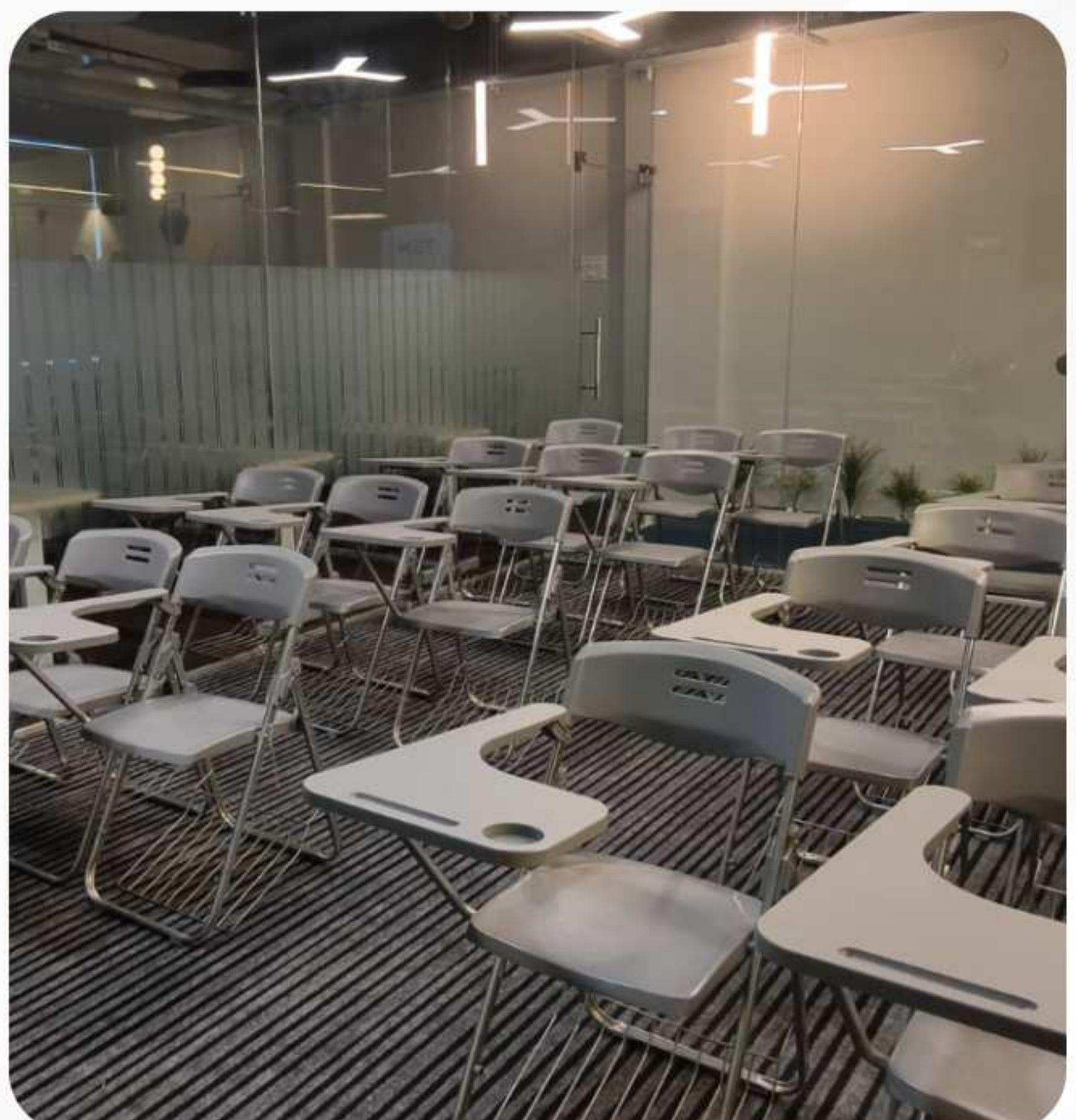
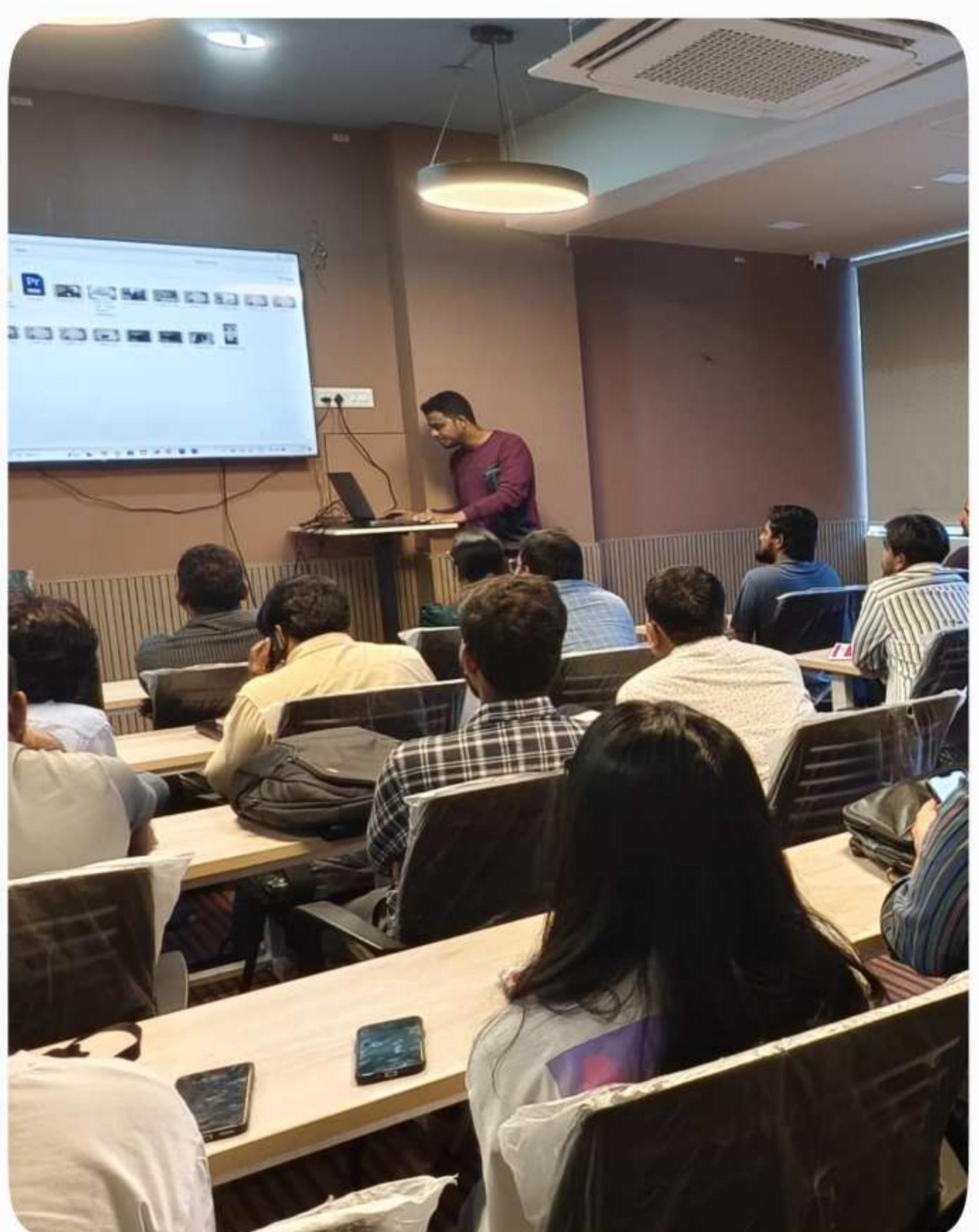


About MET

At Medha Edutech, we take pride in delivering top-tier education through exceptional instructors with extensive real-world expertise. Our comprehensive programs in Full Stack Development, Data Science, Generative AI, Cyber Security, and UI Development are meticulously crafted to meet the evolving demands of the tech industry. Having successfully upskilled over 20,000 students across 15+ countries, we remain committed to excellence in education.

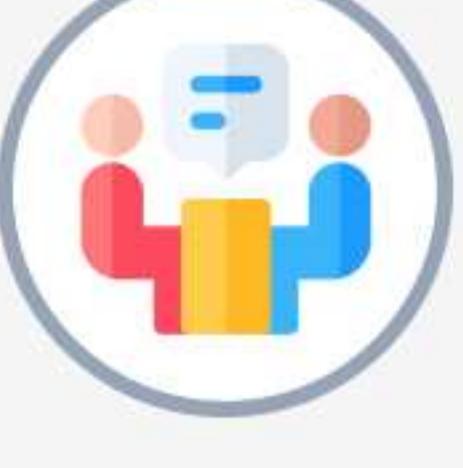
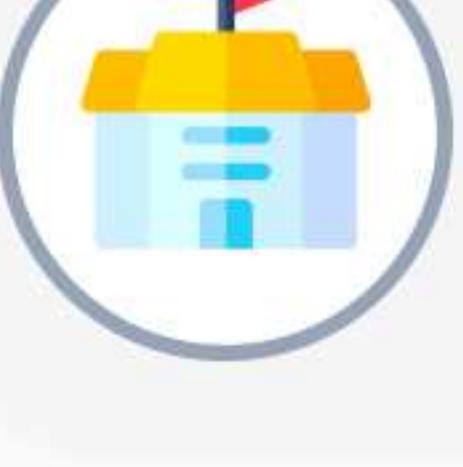
We are committed to empowering learners with practical knowledge through hands-on training and live projects. Guided by industry-experienced trainers, our courses ensure a seamless blend of theory and real-time application. Whether you aim to enhance your skills, transition into a new career, or embark on your professional journey, Medha Edutech stands as your trusted partner in achieving success. Recognized for the **India Excellence Awards 2024**, we continue to set benchmarks in quality education. As a leading software training academy, we are dedicated to making learning accessible, impactful, and transformative.

World-class infrastructure on campus brings the feel of an IT company



Why Choose MET

At MET, we turn learners into achievers with hands-on training, certifications, Placements, and global opportunities!

-  Instructors with Industry Expertise
-  Access free spoken english, Aptitude & Reasoning Classes
-  Transform with Personality Development Classes
-  Get Hands on Projects
-  Regular Assignments and Evaluations
-  Weekly Tasks and Skill Assessments
-  Practical and Industry-Centric Curriculum
-  24/7 LMS Access
-  Low-Cost Fee Structure
-  Extensive Practical Learning
-  CV Development Support
-  Professional Portfolio Guidance
-  Personalized Mentorship
-  Weekly Interview Simulations
-  Premium International Standard Campus



Monthly Hackathons + Career Accelerator Workshops

BUILD. COMPETE. GROW.



Level up with high-impact,
course-aligned hackathons
every month.



Solve real-world challenges,
race the clock, and stand out
from the crowd.



Get live mentorship,
showcase your skills, and
push your limits.

WIN BIG

Build a **Strong Portfolio**, Certificates, Internships & Exclusive Rewards.

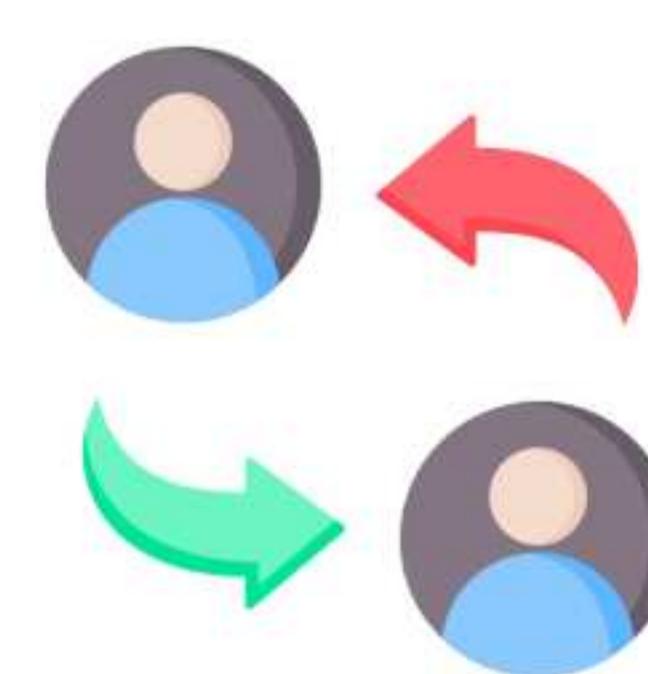


Who Can Learn Data Science



Freshers

Begin your journey into one of the most sought-after fields.



Career Switchers

Transition to a high-growth domain with lucrative opportunities.



Tech Enthusiasts

Expand your skillset to include the most in-demand data skills.



Business Professionals

Learn to leverage data for strategic decision-making.

In-Demand Roles



Data Scientist



Data Analyst



Machine Learning Engineer



Business Intelligence Developer



AI Specialist



Big Data Engineer

Industries Benefiting From Data Science



Healthcare



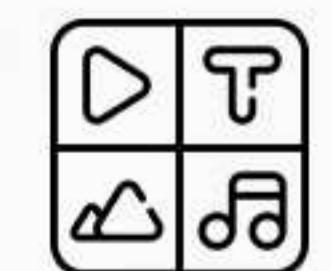
E-commerce



Finance



Retail



Entertainment



Your Smart Learning Partner Medha Academy LMS

LMS LIKE NEVER BEFORE

Built for the Future



Get auto-uploaded recorded sessions daily after your class.



Access your entire course library from anywhere, anytime.

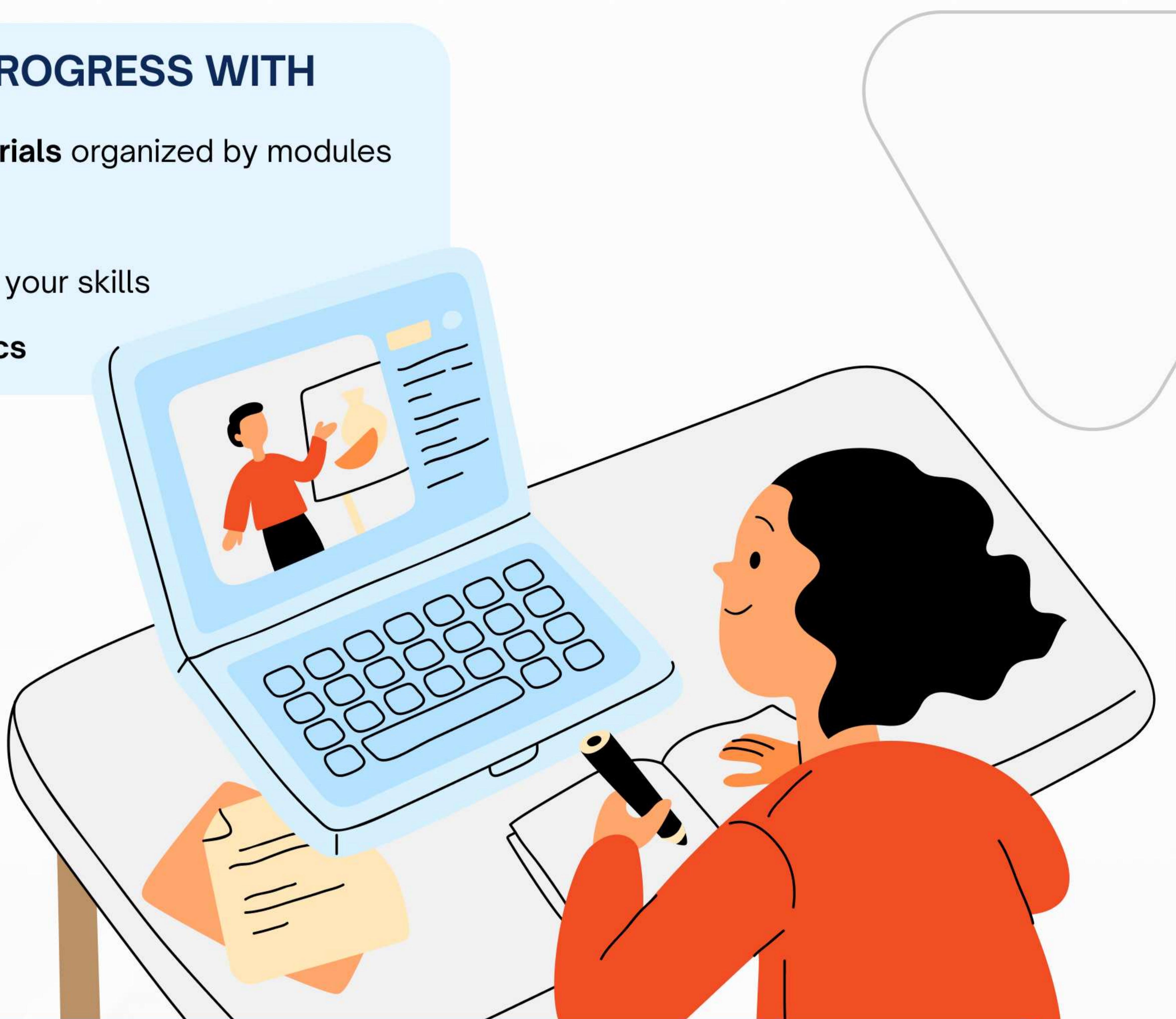
TRACK YOUR PROGRESS WITH

Assignments & materials organized by modules

Topic-wise quizzes

Assessments to test your skills

Performance analytics



LMS BENEFITS

Missed a class? No worries – watch it later.

All your learning is in one place.

Prepares you better for interviews and projects.

Suitable for working professionals, students, and career switchers.

Learning isn't limited to the classroom anymore. **With MET LMS**, the classroom follows you.



Our Alumni Work At

At Medha EduTech, we take immense pride in the success of our students who have gone on to build thriving careers with leading companies across the globe. Our alumni have secured prestigious roles in top organizations, including **Google, Microsoft, Amazon, Deloitte, Infosys, Wipro, TCS, Cognizant, Capgemini, Accenture, Byju's, Zomato, Swiggy**, and many more.

By fostering a strong foundation in both technical and professional skills, we ensure our students are job-ready and capable of making an impact in the dynamic world of technology. Join Medha EduTech and step into a future filled with possibilities!

Companies Hiring Data Scientists



About Data Science & Its Importance

What is Data Science?

Data Science is the art of extracting meaningful insights from structured and unstructured data using advanced tools, algorithms, and machine learning techniques. It is the backbone of innovation in today's data-driven world.

Why is Data Science Important?

- **Enhanced Decision-Making:** Helps businesses make data-backed decisions.
- **Automation of Tasks:** Drives efficiency through predictive modeling and AI integration.
- **Emerging Career Path:** High demand across industries, with competitive salaries and growth potential.
- **Revolutionizing Industries:** From healthcare to e-commerce, Data Science is transforming every sector.

Present and Future of Data Science



Impact Across Industries

- **Healthcare:** Predictive analytics has reduced hospital readmissions by **76%**.
- **Retail:** Personalized recommendations contribute to **35%** of Amazon's revenue.
- **Finance:** Fraud detection models have cut financial fraud by **30%**.

Market Growth

- The global Data Science market was valued at **\$95.3 billion in 2021**.
- It is projected to reach **\$300 billion by 2030**, growing at a CAGR of **26.9%**.

Future Prospects

- Data Science is essential for emerging fields like Generative AI, autonomous vehicles, and smart cities.
- Big data generation is projected to hit **463 exabytes daily** by 2030, emphasizing the growing need for real-time analytics expertise.

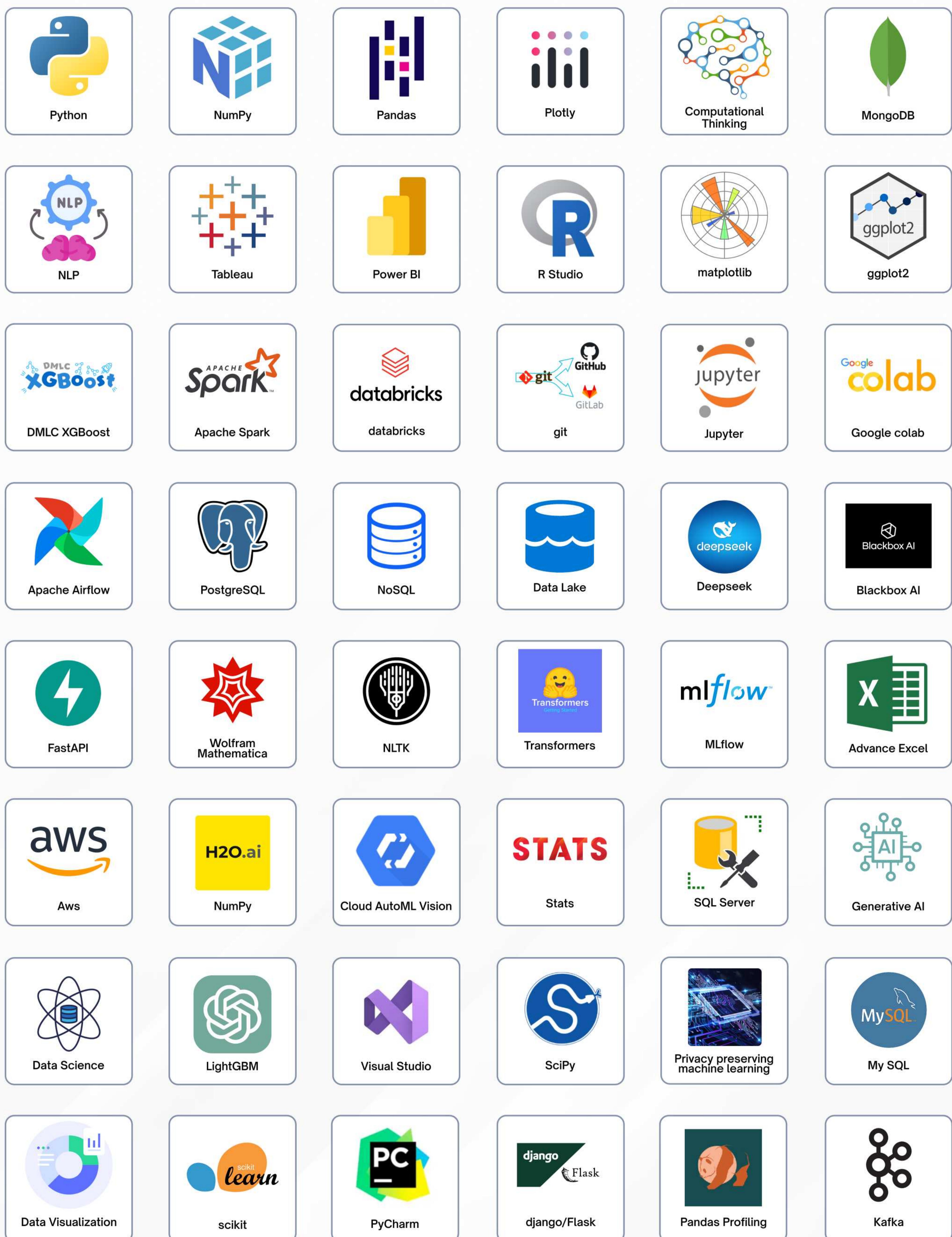
Career Opportunities

- The demand for Data Science professionals is skyrocketing, with average salaries in the U.S. at **\$120,000**.
- By 2030, salaries are expected to grow further as the need for data-driven decision-making intensifies.

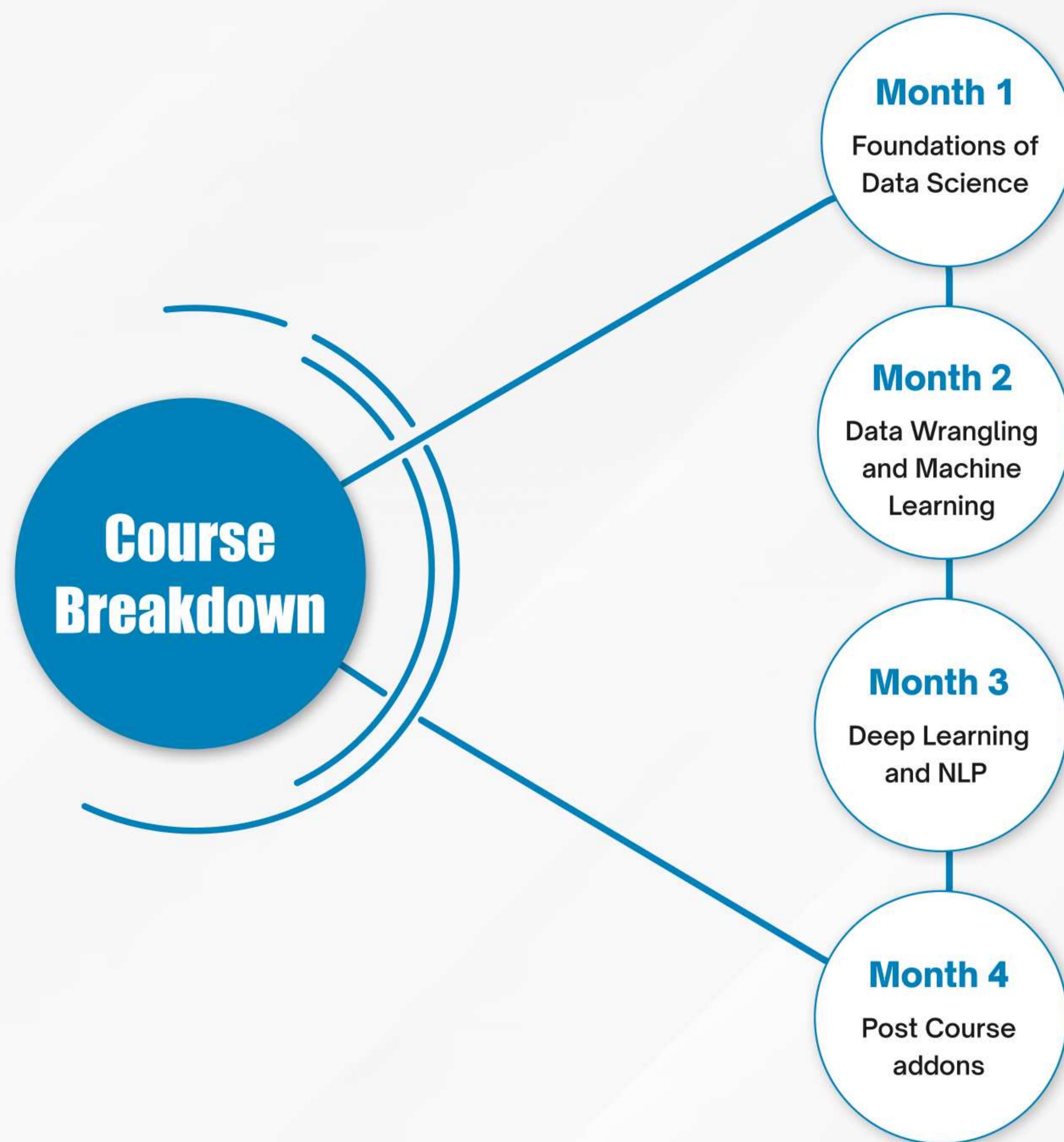
These trends highlight Data Science as a thriving and future-proof career choice.



Tools and Technology covered



Unlock Your Data Science Future with Python, Analytics & Generative AI



Week 1: Introduction to Data Science
Week 2: Python for Data Science
Week 3: Data Visualization
Week 4: Statistics and Probability

Week 5: Data Wrangling and EDA
Week 6: Machine Learning Basics
Week 7: Regression Techniques
Week 8: Classification Algorithms

Week 9: Deep Learning
Week 10: Projects on DL
Week 11: NLP (Natural Language processing)
Week 12: projects on NLP

- Addon projects, LLM's
- Forecasting In Cloud



Exclusive Add-On

Learn PySpark and Airflow for assured placements with premium packages!

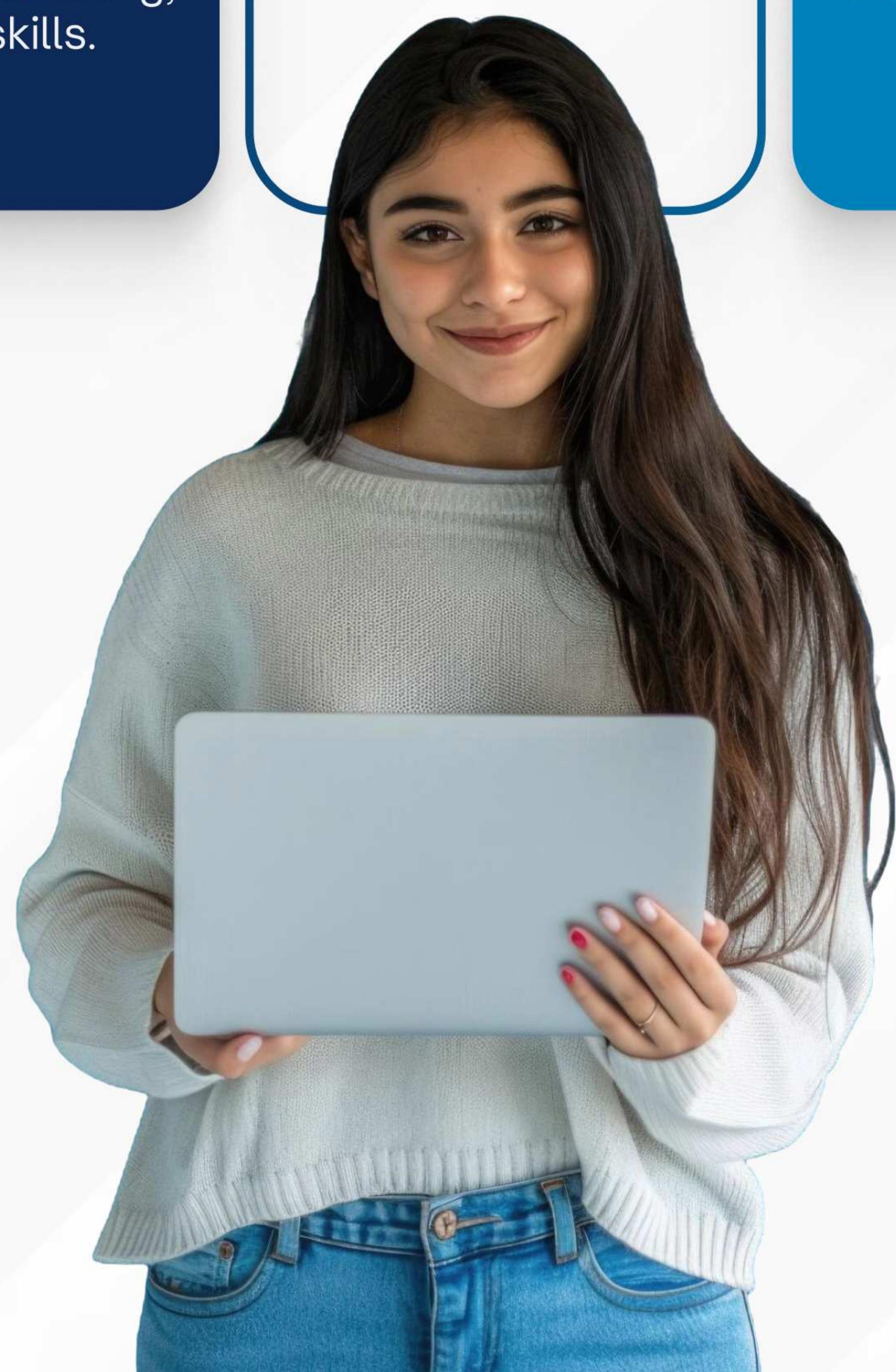


Mon-Fri :

1-hour class,
1.5-hour hands-on
practice,
project work, &
practical learning,
soft skills.

Saturday :

Revision,
1-on-1 mentorship,
mock interviews,
soft skills &
industry insights.



Detailed Syllabus :

Module 1

Python

- Why Python
- Python IDE
- Hello World Program
- Variables & Names
- Strings Basics
- Escape Characters
- String Methods
- String Sub slicing
- Collections/ Basic Data Structures
- (List, tuple, SET, Dictionary)
- Conditional Statements
- Operations
- Nested Conditions
- For and While Loop
- Numbers and Math's Functions
- Common errors in Python

- Iterators and Pickling
- Python JSON Functions

Module 3

- Introduction to algorithmic thinking
- Algorithm Efficiency and Time complexity example algorithms binary search
- Heap and Binary Trees
- Memory Management/ Technologies
- Dry Codes, naming conventions
- comments and docs
- Assessments

Module 4

NumPy

- NumPy Introduction
- Installations and basic Array's
- Array vs List
- Dot products
- Speed test array vs list
- Multidimensional (nd) Array's
- Indexing, Slicing, and Boolean Indexing
- Reshaping
- Concatenation
- Broadcasting
- Functions and Axis
- Copying
- Generating Arrays
- Random Numbers
- Linear Algebra
- Solving Linear System

Module 2

- Introduction to Function
- Arguments and parameters
- ARGS & KWARGS
- List Comprehension
- Lambda Functions
- Map Functions
- Filter Functions
- File Handling
- Debugging in Python
- Class and objects
- Regular Expression
- Python PIP
- Read Excel Data in Python
- Python MySQL



Detailed Syllabus :

Module 5

Pandas

- Introduction to Pandas
- Series Data Structures
- Indexing Data Frame
- Data Structure Querying
- Indexing and Loading
- Merging Data Frames
- Ungroup by Operations
- Pivot Table
- Operations- Stats (Operations in General exclude missing data)
- User-defined Function
- Reshaping
- Time Series
- Plotting with Pandas

Module 6

MYSQL

- What is MYSQL
- Who uses MYSQL
- Connecting to and Disconnecting From the Server
- Entering Queries
- CRUD Operations
- Troubleshooting
- MYSQL- Using joins
- MYSQL- Sorting Results
- MYSQL- Null values
- MYSQL- Alter command
- MYSQL- indexes
- MYSQL- Database info
- MYSQL- Handling Duplicates
- MYSQL- Transactions

- MYSQL- Aggregate Functions
- Windows Functions
- MYSQL-Like Clause
- MYSQL- Data Types
- Different Database Languages

Module 7

Stats

- Inferential Stats
- Descriptive stats
- Sample & Population
- Variable & Types of Variables
- Basic Probability Theory
- Hypothesis Testing
- Total Probability Theorem and Bayes theorem

Module 8

- Discrete Distribution- Bernoulli, Binomial and Geometric
- Continuous Distribution- Uniform, Exponential and Normal
- Chi Square distribution and Interval Estimators
- Examples of Estimators
 - 1 Hypothesis Testing- I
 - 2 Hypothesis Testing - II

Module 9

An introduction to data visualization in Python

- Data Visualisation - Explore and Manipulate Data and Create Engaging Interactive



Detailed Syllabus :

- Plots with Python Libraries (Matplot, seaborn)

1. Matplotlib

- Features of Matplotlib
- Anatomy and customization of Matplotlib plot
- Plotting and Plot Customization
- Visualization Examples
- 3D projection (from mpl_toolkits.mplot3d import Axes3D)

2. Seaborn

- Overview of seaborn plotting function
- visualizing the statistical relationship
- visualizing distributions of data
- visualizing categorical data
- visualizing estimations and error bars
- Estimating regression fits
- choosing color palettes

Module 10

Tableau

1. Data Connectivity
2. Drag-and-Drop Interface
3. Interactive Dashboards
4. Data Blending and Joining
5. Calculated Fields
6. Filters and Parameters
7. Charts and Visualizations
8. Geographic Mapping
9. Forecasting and Trend Lines
10. Data Stories and Tooltips
11. Tableau Prep Integration
12. Sharing and Collaboration
13. Mobile-Responsive Dashboards

Deep Learning

1. Introduction to Deep Learning
 - Understanding what Deep Learning is and its significance in Data Science.
2. Difference Between ML vs AI vs DL
 - Clarifying the core differences with real-world examples.
3. Artificial Neural Networks (ANN)
 - Structure and working of ANNs
 - Use cases and applications
4. Convolutional Neural Networks (CNN)
 - Concepts of Convolution, Pooling, and Feature Maps
 - Real-time image classification examples
5. Training Neural Networks
 - Loss functions, backpropagation, optimizers
 - Overfitting and regularization techniques
6. PyTorch Implementation Using Forward Propagation
 - Building and training a simple neural network in PyTorch
 - Hands-on with forward pass, activation functions, and layers

Computer Vision with Deep Learning

1. Introduction to Computer Vision
2. Image Preprocessing & Augmentation
3. Advanced CNN Architectures
 - Object Detection Models (RCNN variants, Mask RCNN)



Detailed Syllabus :

- Landmark Detection, Style Transfer
- 4. Transfer Learning & Pretrained Models

Module 11

Machine Learning

- Introduction of machine learning
- Supervised vs Unsupervised learning
- Linear regression
- Logistic Regression
- Evaluating Model Interpretations
- Feature selection
- Overfitting and Regularization
- Classification using Decision Trees
- Support Vector Machines
- Creating, trimming, and analyzing trees
- Random forest
- Boosted trees - Gradient boosting
- Undersampling and oversampling
- Unsupervised Learning: Clustering
- Dimensionality Reduction
- K means Algorithm
- Business Problem-Solving
- Clustering Assignment
- Do's and Don'ts while training the ML Model
- Time series forecasting
- Ensemble Modeling
- Marketing Analytics

Module 12

Natural Language Processing

- Natural Language Processing – Introduction
- Word Level Analysis
- Syntactic Analysis

- Semantic Analysis
- Part of Speech (PoS) Tagging
- Word Sense Disambiguation
- Language Processing and Python

Module 13

Reinforcement Techniques for LLM's

- Practical Programming for RL
- Setting Up the Environment
- Cloning and Configuring Repositories
- Supervised Fine Tuning and Reinforcement Learning
- Analyzing Results and Setting Baselines
- Batch Inference Script Breakdown
- Improving Performance with Supervised Fine Tuning
- Generating ORPO Pairs
- Theory and History of Reinforcement Learning
- Final Evaluation and Insights

Add-on's

Pyspark

Mongo DB

Metabase



Detailed Syllabus :

Module 14

Main Projects:

1. Fin Pay Analysis
2. Taxi ride Analysis
3. Bank Customer Analytics Using SQL
4. Data Analytics -3 projects
5. Credit Card Fraud Detection Using ML
6. House Price prediction
7. Customer Conversions
8. Pharmaceuticals Forecasting
9. Car Price prediction
10. Sentiment Analysis using NLP
11. Parkinson's Disease Prediction
12. Pneumonia Disease Detection
13. Text to Image Generator
14. Text to Text Generator
15. Forecasting in AWS
16. OLLAMA
17. Chatgpt,OpenAI,N8N

General Projects

1. Login & Registration page using Streamlit
2. Stock market Analysis with Linear Regression
3. Titanic Survival Prediction Using DS&ML
4. Project on Knn Algorithm
5. Decision Tree on Iris Data
6. Tumor Prediction using DT
7. Mileage Prediction Using DT

4. Project on Knn Algorithm
5. Decision Tree on Iris Data
6. Tumor Prediction using DT
7. Mileage Prediction Using DT

Module 15

Power BI

- Introduction to Power BI
- Installation Steps
- Power BI Architecture
- Power BI Desktop Window
- Window Supported Browsers
- Generating Reports
- Power BI vs Service
- Power BI Supported Data Sources
- Power query Editor
- Data Modelling Concepts (Manage relationships, Cardinality)
- Power BI Report Visualisation
- Power BI Map Visualisation
- Power BI Miscellaneous
- Power BI Sharing Dashboards
- Power BI DAX Basics
- Power BI DAX Functions
- Power BI DAX date Functions
- Power BI DAX logical Functions
- Power BI Useful Resources



Detailed Syllabus :

Module 16

GitHub

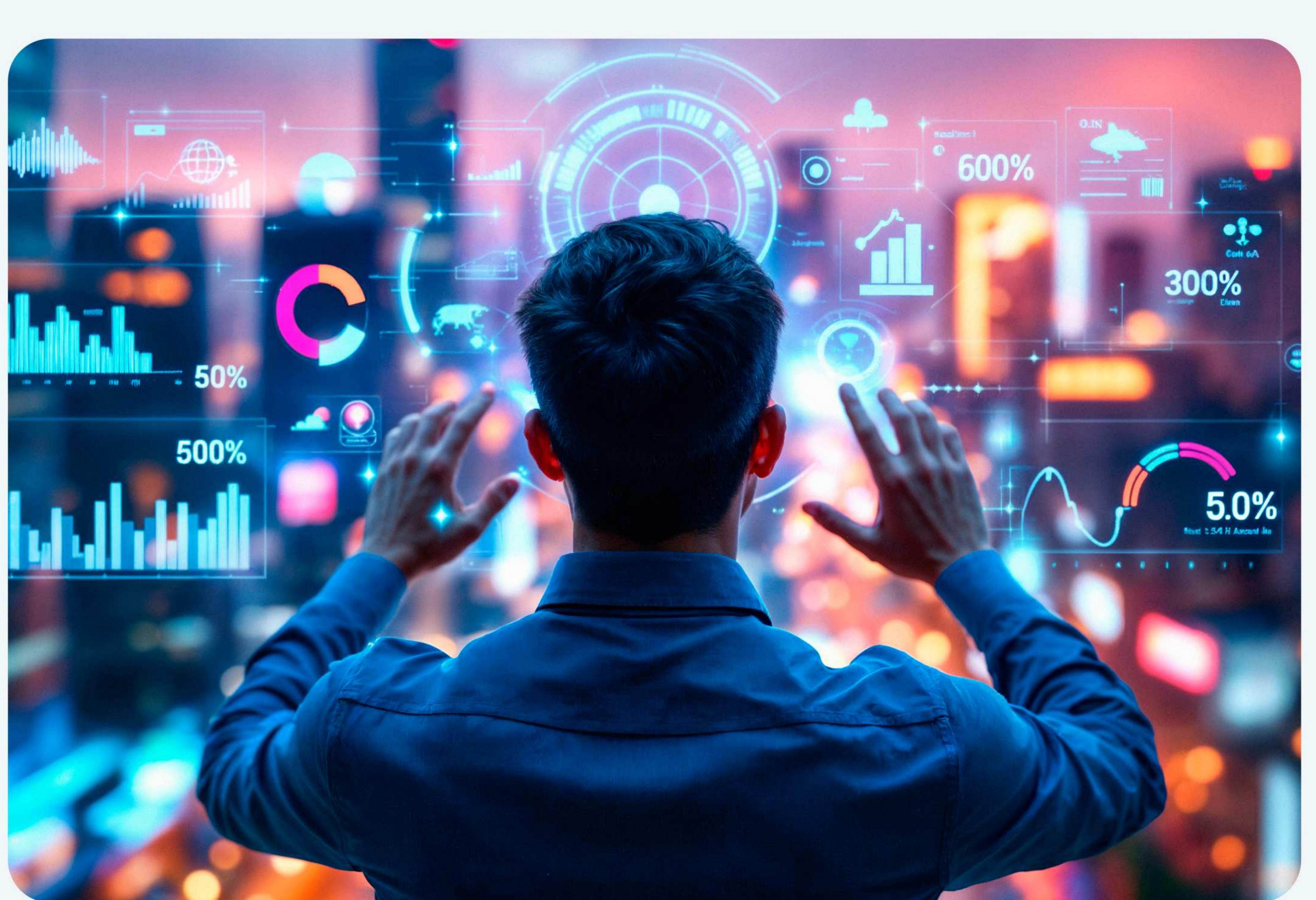
- Working with GitHub Repositories
- GitHub Workflow & Version Control
- Branching & Collaboration
- Advanced GitHub Features
- GitHub for AI & Machine Learning Projects
- Security & Best Practices

Module 17

Generative AI-Tools

Module 18

Mock Interviews and Placement Preparation



Capstone Project

Predictions and
Recommendations
System

Data Analytics
with times Series
Analysis

Our projects
update every month
to meet demand

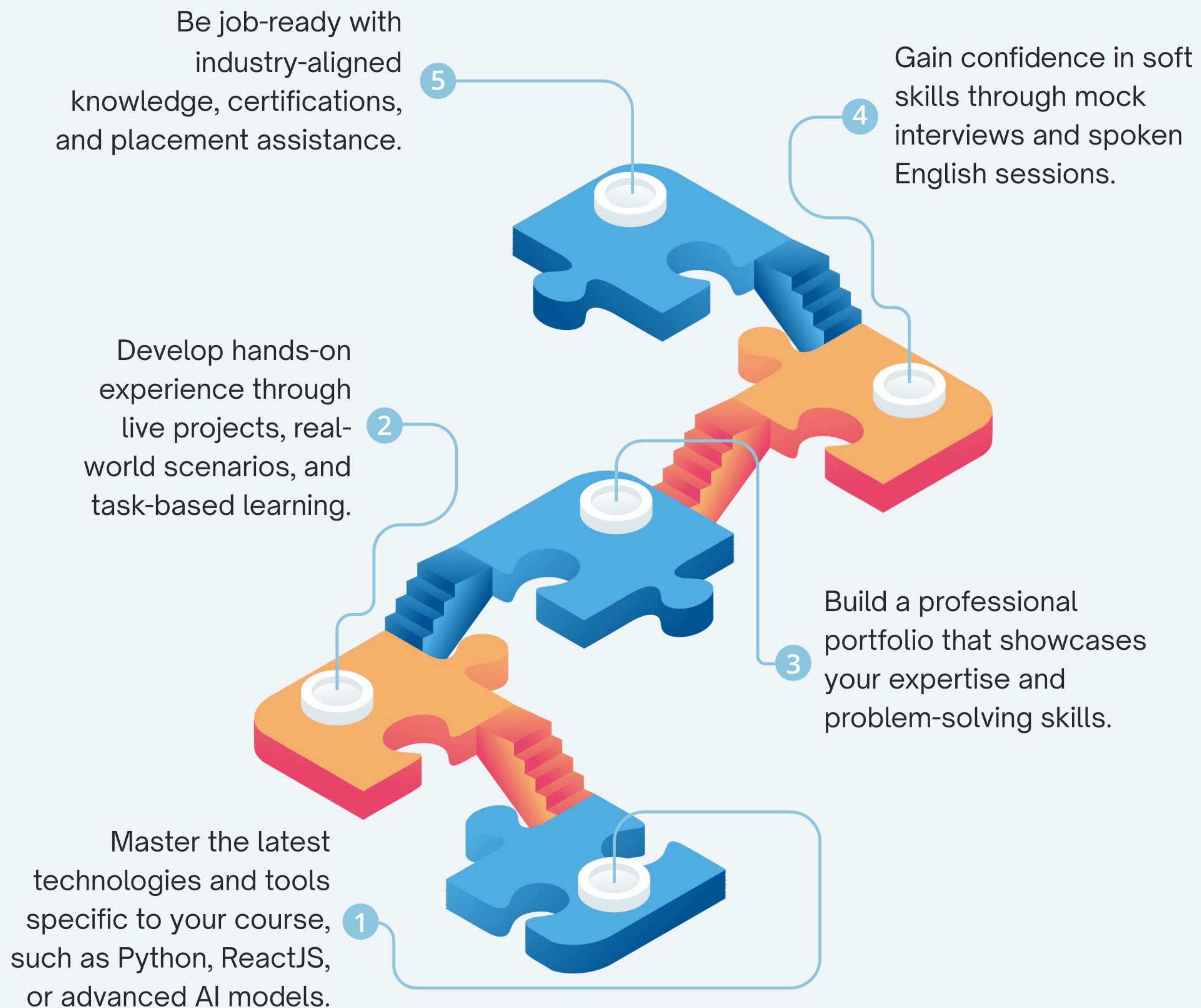


15+ Projects with Industry Experts Mentorship



Learning Outcomes

At Medha EduTech, our courses are designed to deliver practical and measurable learning outcomes that empower you to excel in your chosen field. By the end of your training, you will:



Your journey with us equips you with the skills, mindset, and confidence to achieve your career goals.



Certifications in Alignment with Industry Standards

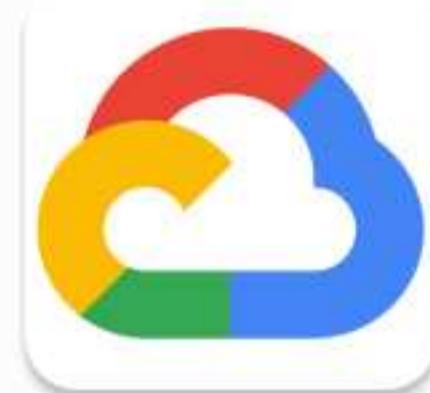
Our Data Science program includes globally recognized certifications to validate your expertise



Google Data Analytics
Professional Certificate



Microsoft Certified : Azure
Data Scientist Associate

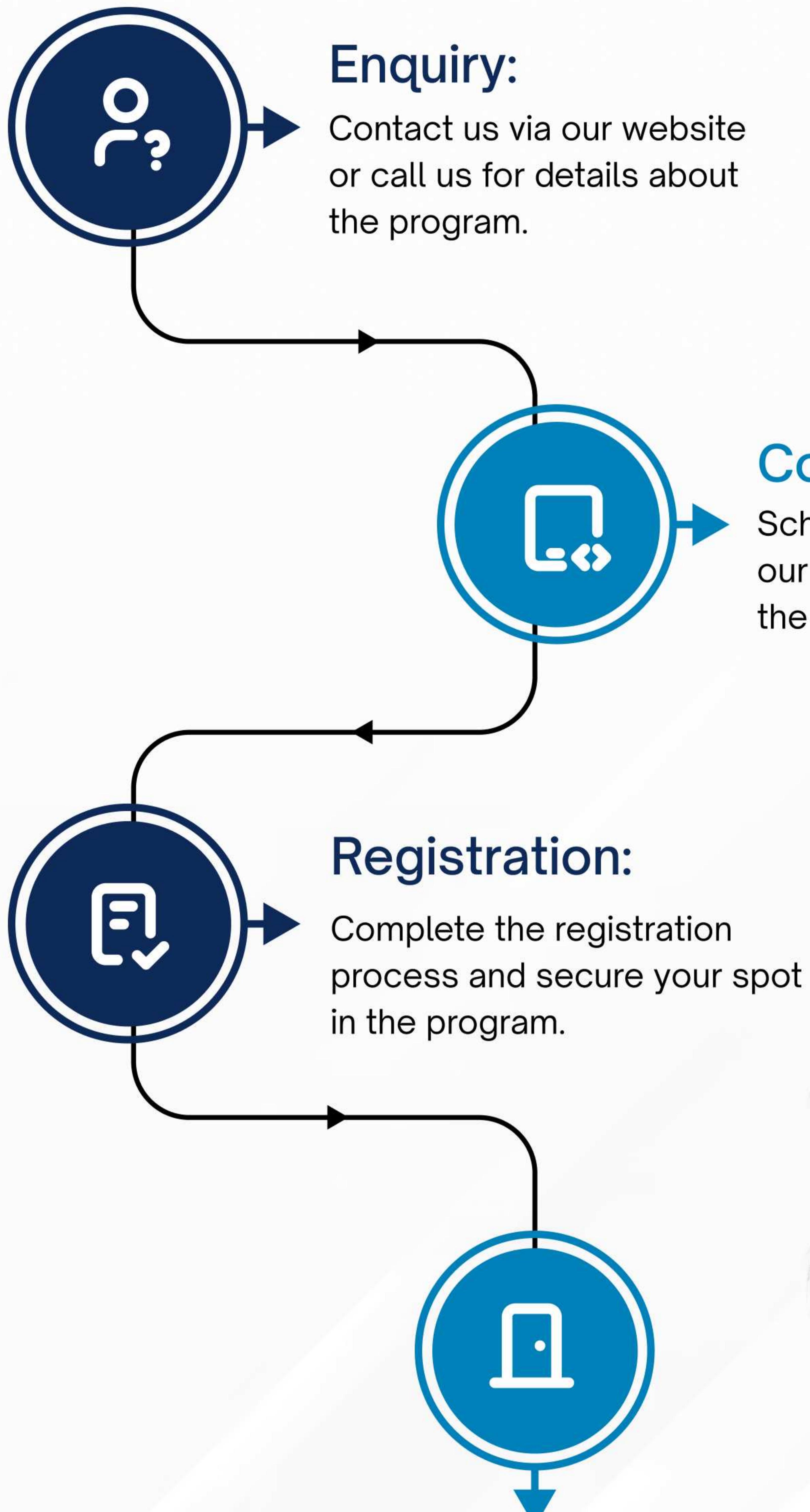


Google Cloud
Skill Badge

These certifications prepare you to meet industry demands
confidently and stand out as a skilled professional.



Enrollment Process

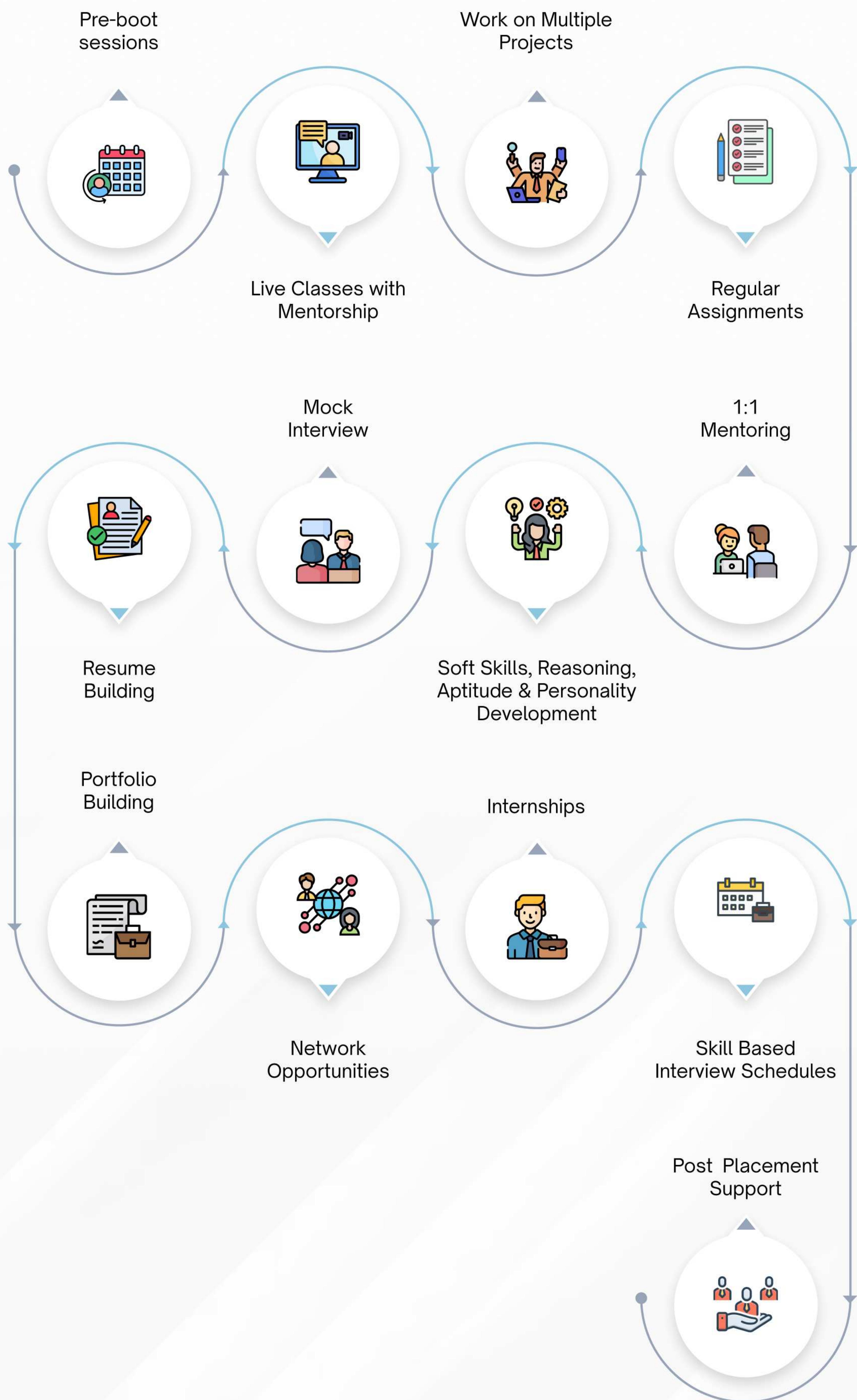


Become Future-Ready:

Enroll today and start your journey towards becoming an expert with data science



Job Placement Journey





Your Path to Data Science Excellence

Build Your Data Science Career with Hands-On, Industry-Relevant Learning.

Whether you're a student, working professional, entrepreneur, or AI enthusiast, our industry-focused programs are designed to make you future-ready.

Choose from a wide range of courses

Full Stack Python | Full Stack Java | Generative AI with Machine Learning & Cloud Computing | Multi Cloud DevOps | Cybersecurity | Digital Marketing with AI | Graphic Designing & Video Editing | Spoken English & Personality Development.

Get hands-on experience, expert mentorship, and placement assistance to kickstart your journey in tech and business. Ready to upskill? Join us today.



Contact Us

+91 8341570179

Website

www.medhaedutech.com

Mail

info@medhaedutech.com