

AI won't replace you, but someone using AI will



Generative AI

Shaping the future

Generative AI and Machine Learning
with Cloud Integration for Industry 4.0

Master AI, Lead the Future Only at MET!



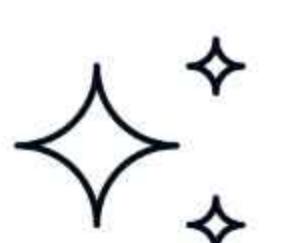
#startupindia





India's First-Ever Institute
to Offer
**AI-ASSISTED MOCK
INTERVIEWS!**



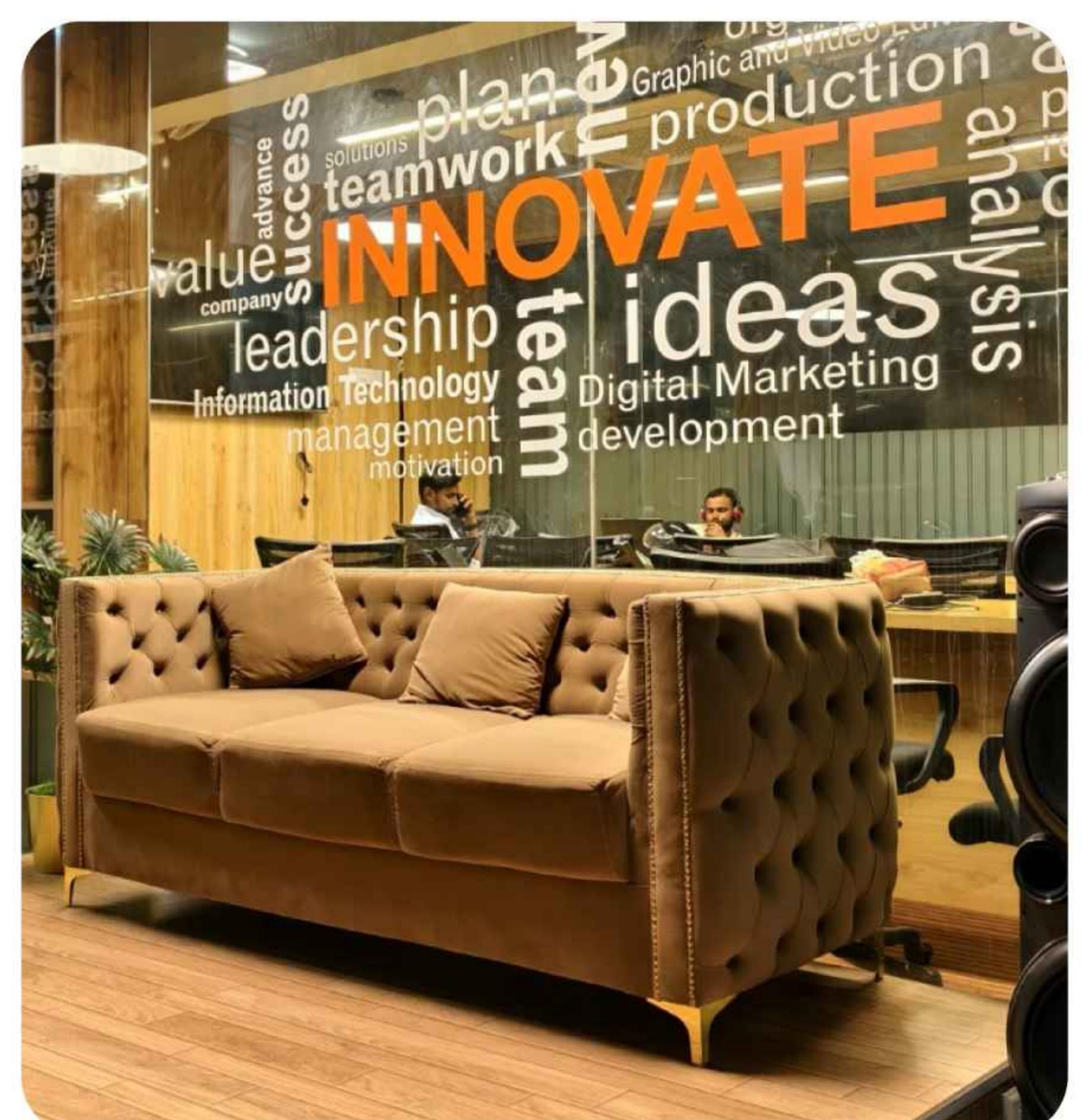
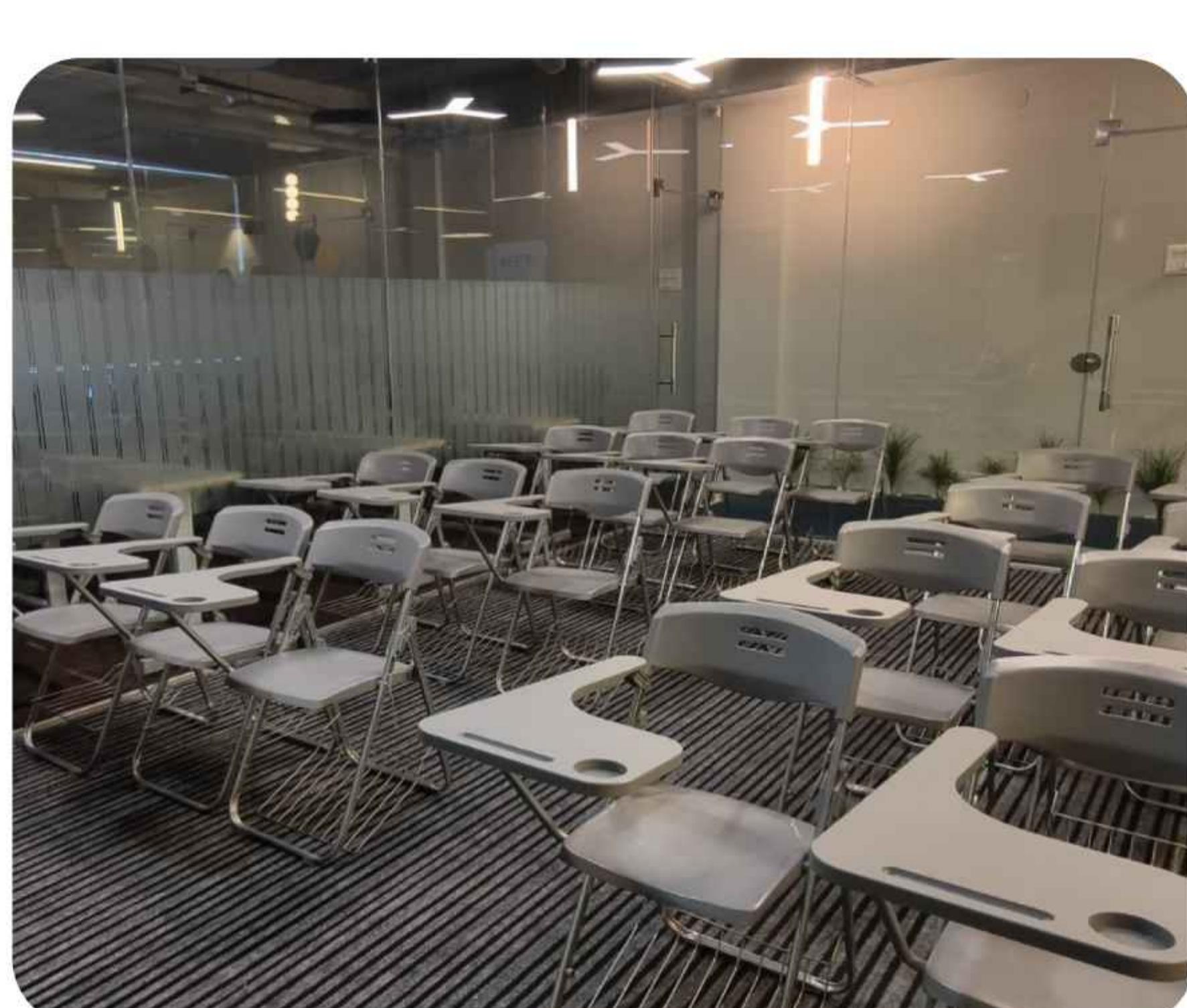
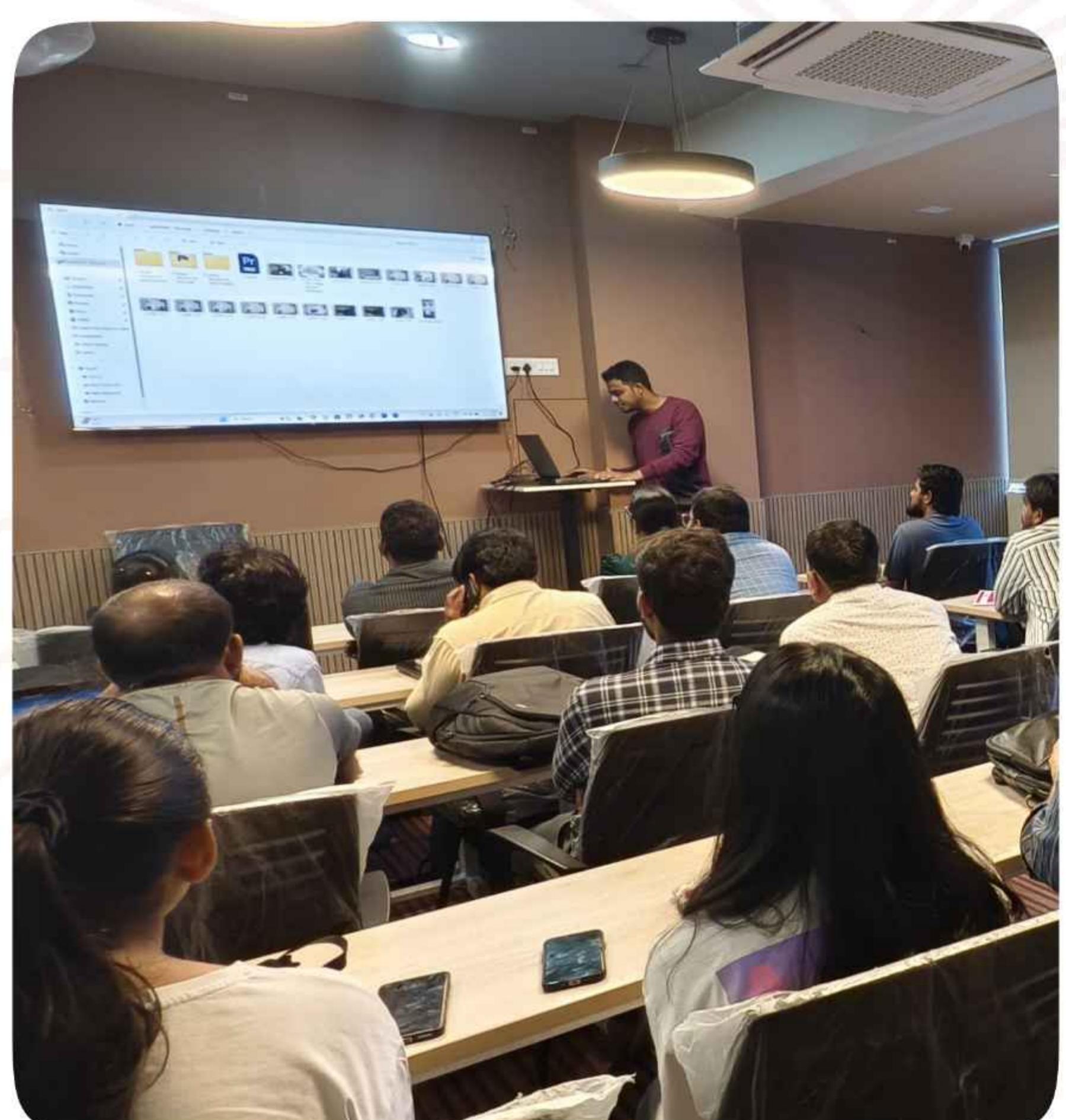
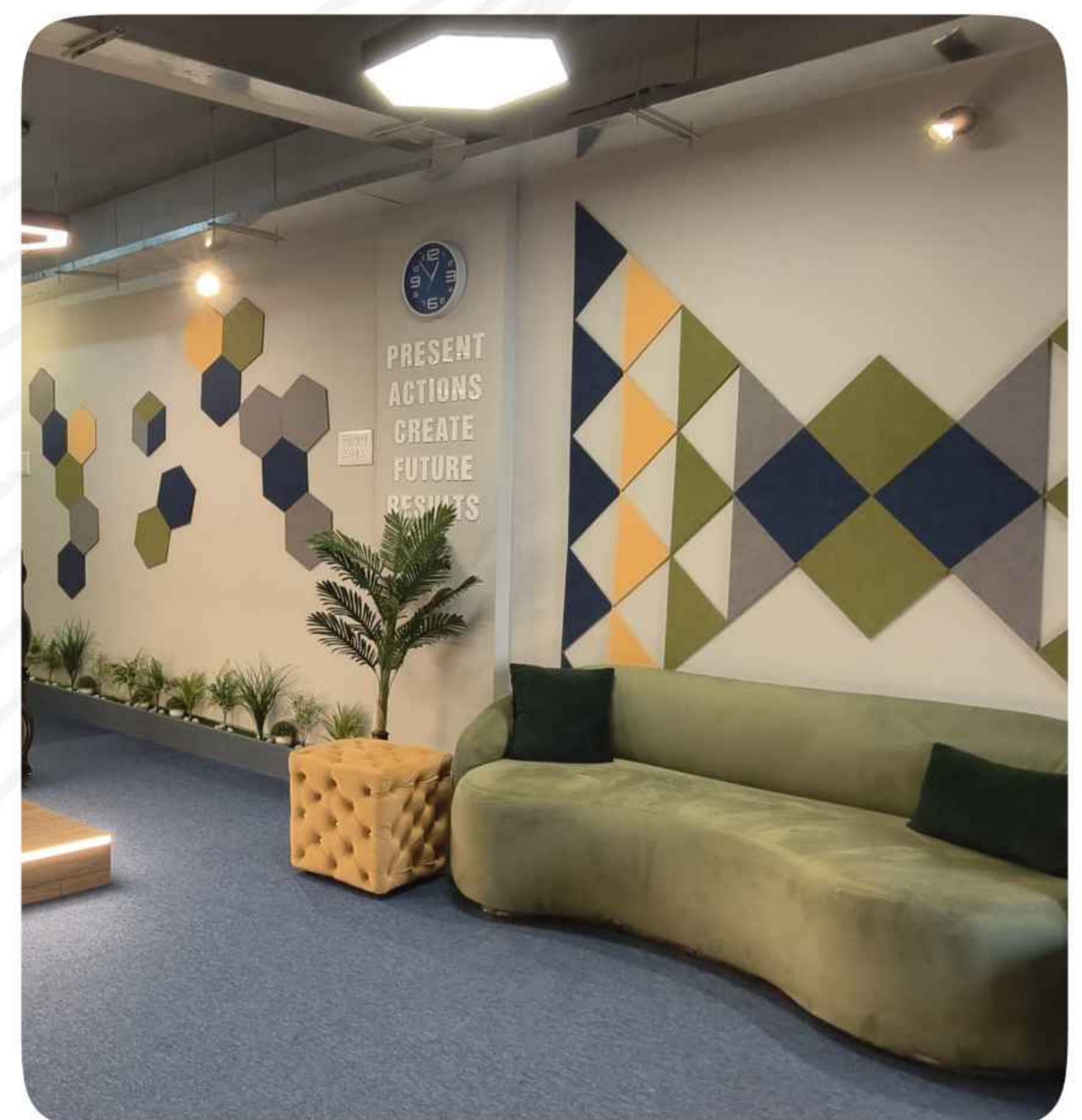
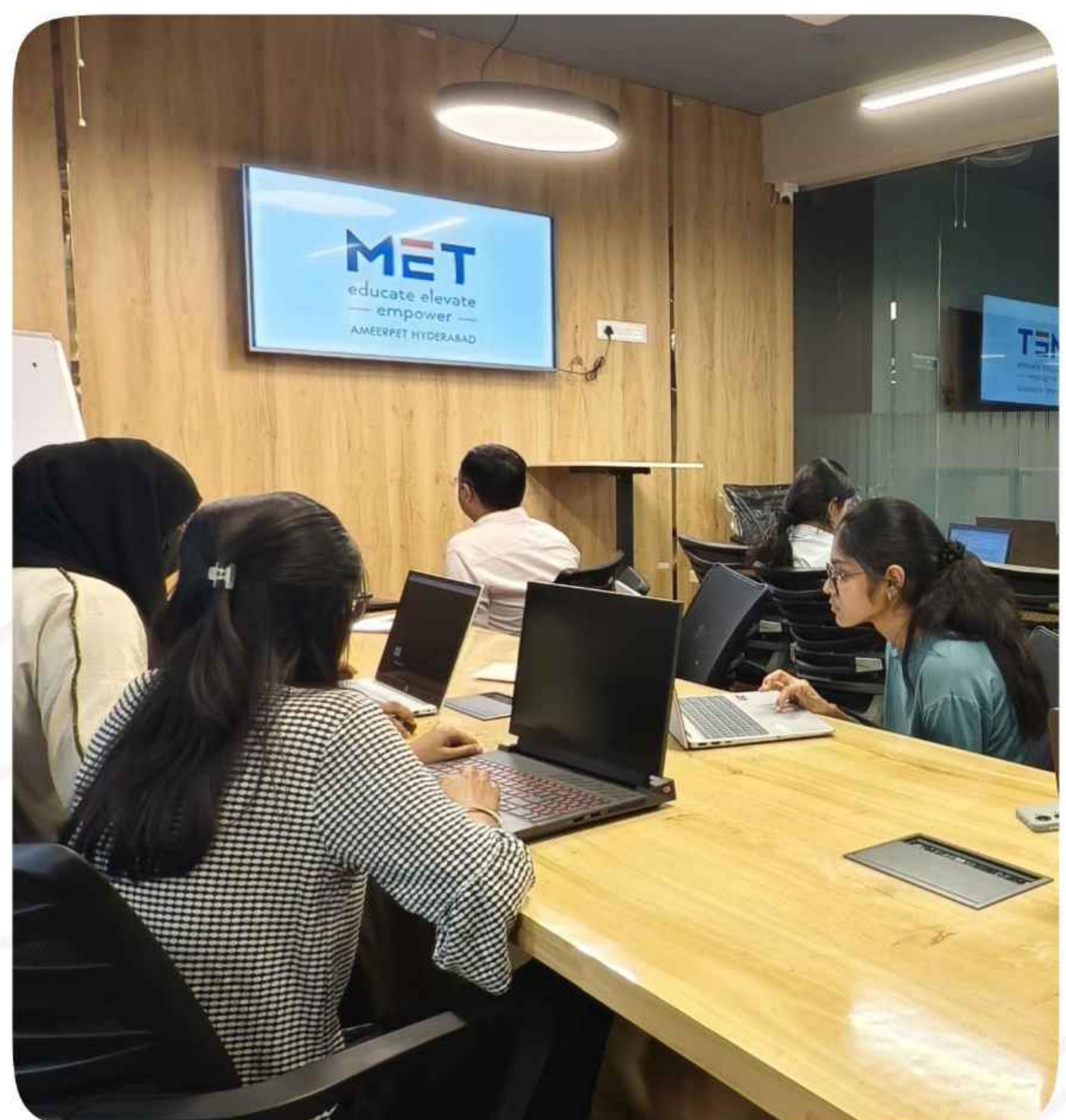


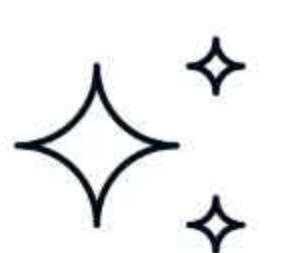
» About MET

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 vast Software Industry Expertise



Access Free Spoken English Classes



Transform with Personality Development Classes



Innovate at our Center of excellence (COE) and Labs



Get Hands on Projects



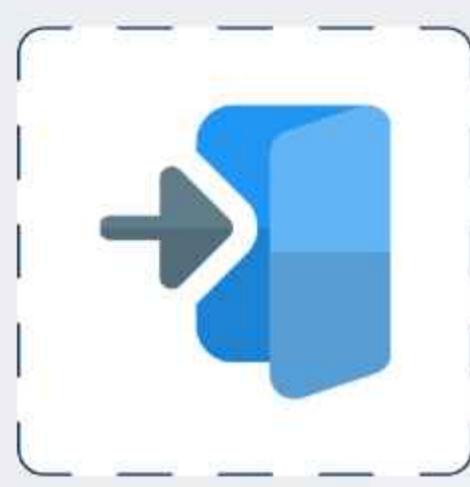
Regular Assignments and Evaluations



Weekly Tasks and Skill Assessments



Practical and Industry-Centric Curriculum



24/7 LMS Access



Low-Cost Fee Structure



Extensive Practical Learning



CV Development Support



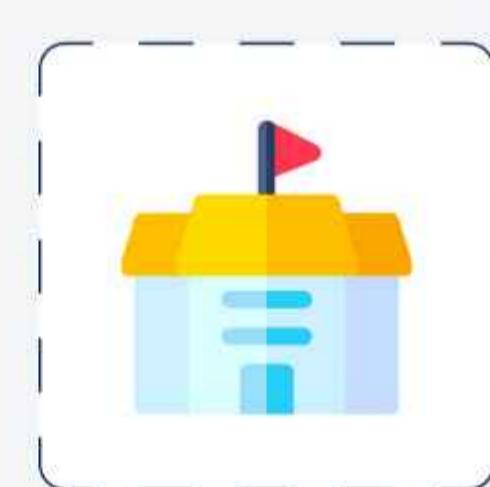
Professional Portfolio Guidance



Personalized Mentorship

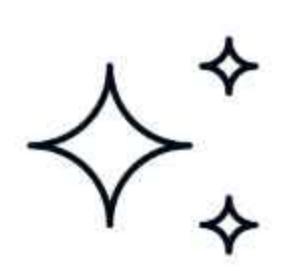


Weekly Interview Simulations



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.

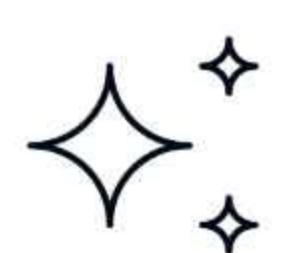


Get live mentorship,
showcase your skills, and
push your limits.

WIN BIG

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





► Who Can Learn?



Students & Freshers

looking for future-ready skills



Working Professionals

aiming for career growth



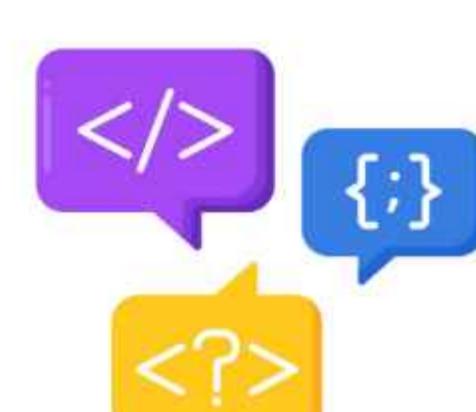
Entrepreneurs & Freelancers

automating their businesses



AI/ML Enthusiasts & Industry 4.0 Innovators

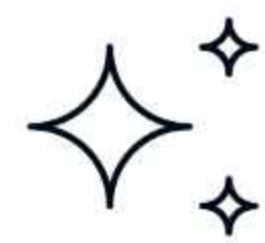
eager to explore cutting-edge technologies



Anyone with basic knowledge

of end-to-end software development (Python) and mathematics





► 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.

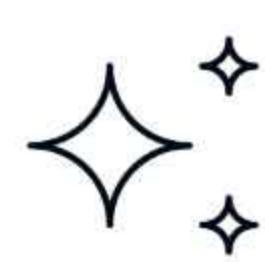
All your learning is in **one place**.

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.



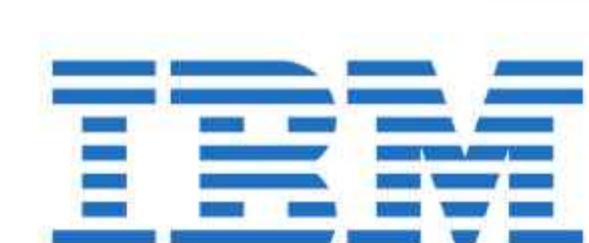


» Our Alumni Work At

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.**

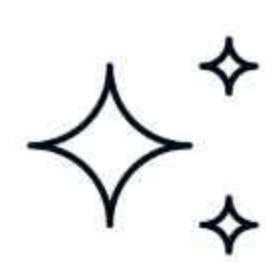
By fostering a strong foundation in both technical and professional skills, we ensure our students are job-ready and capable of making an impact in the dynamic world of technology. Join Medha EduTech and step into a future filled with possibilities!

Companies Hiring



McKinsey&Company

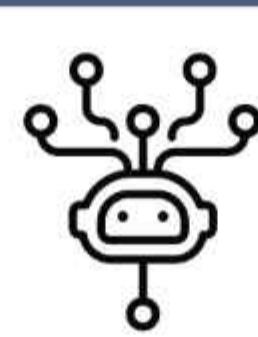




► In-Demand Roles in Generative AI



Data
Scientist



AI/ML
Engineer



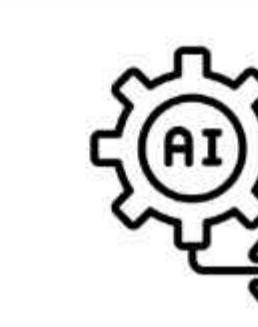
Cloud AI Solutions
Architect



Industrial IoT
Engineer



Robotics Engineer
(AI Focused)



AI/ML Product
Manager



AI Ethics
Specialist



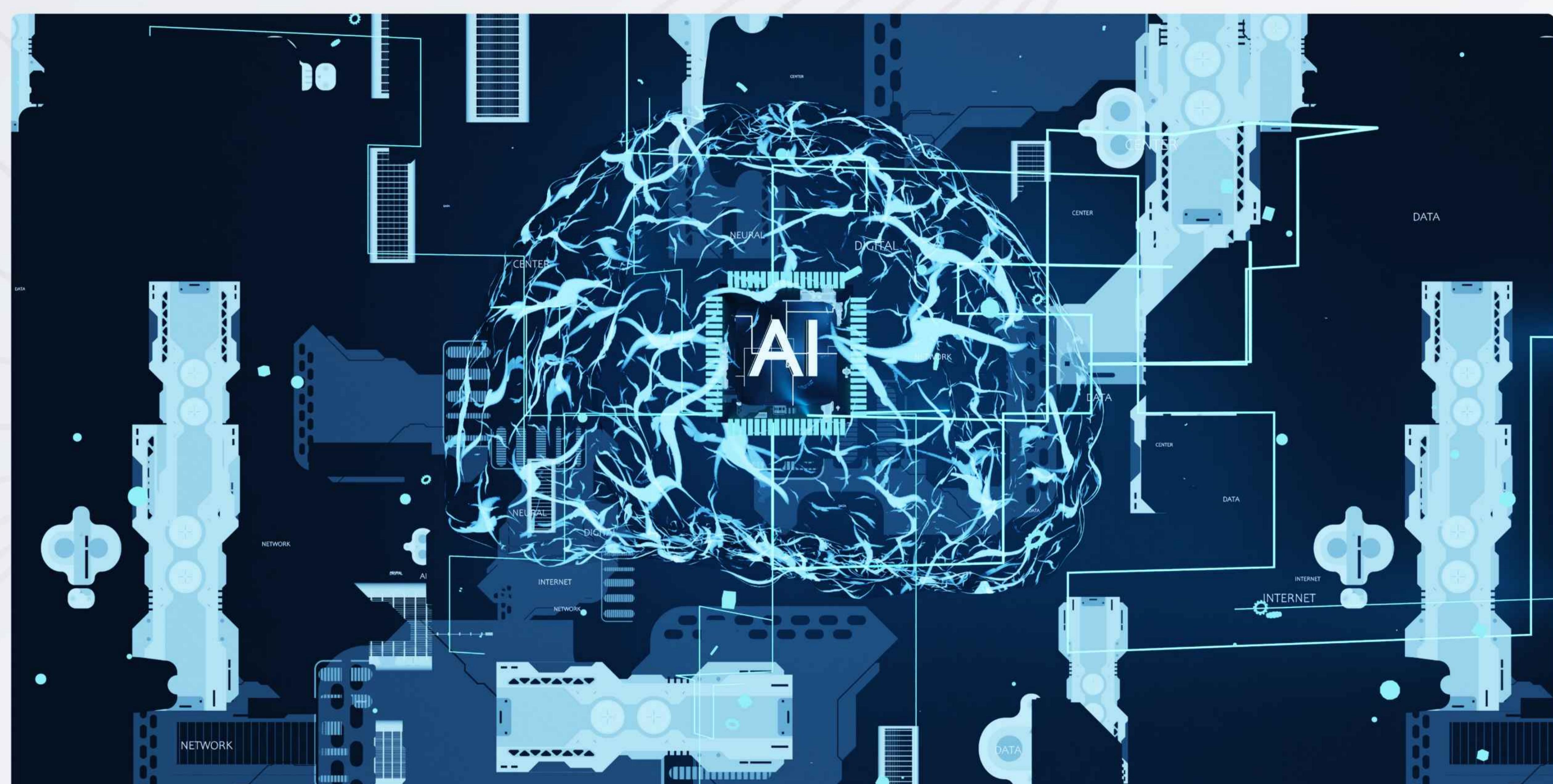
Cloud Systems
Engineer



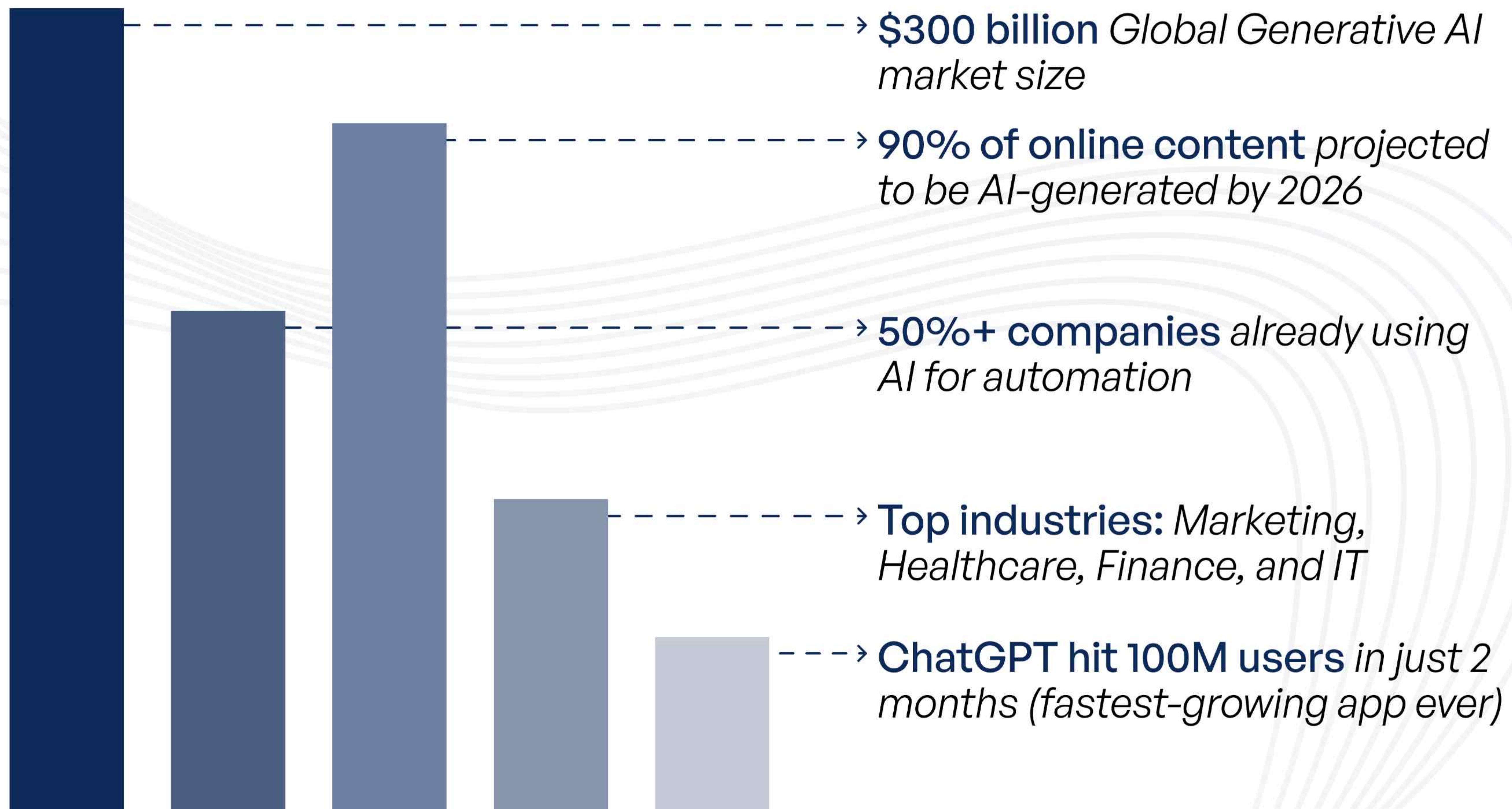
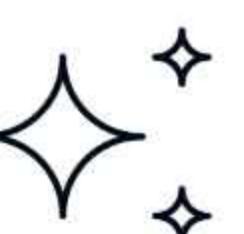
Industry 4.0
Experts/ Engineers

► About Generative AI & Its Importance

Generative AI is transforming industries by enabling machines to create human-like content, from text and images to music and code. With AI-driven automation and innovation at its peak, mastering Generative AI is no longer optional—it's essential!



► Present & Future of Generative AI



Market Insights

\$1.5 trillion Expected Generative AI market valuation

80% of jobs will have AI-assisted tasks

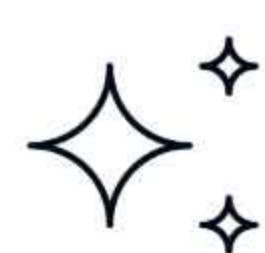
AI will boost global GDP by 14%, adding \$15.7 trillion to the economy

AI-generated movies, music, and software will dominate creative fields

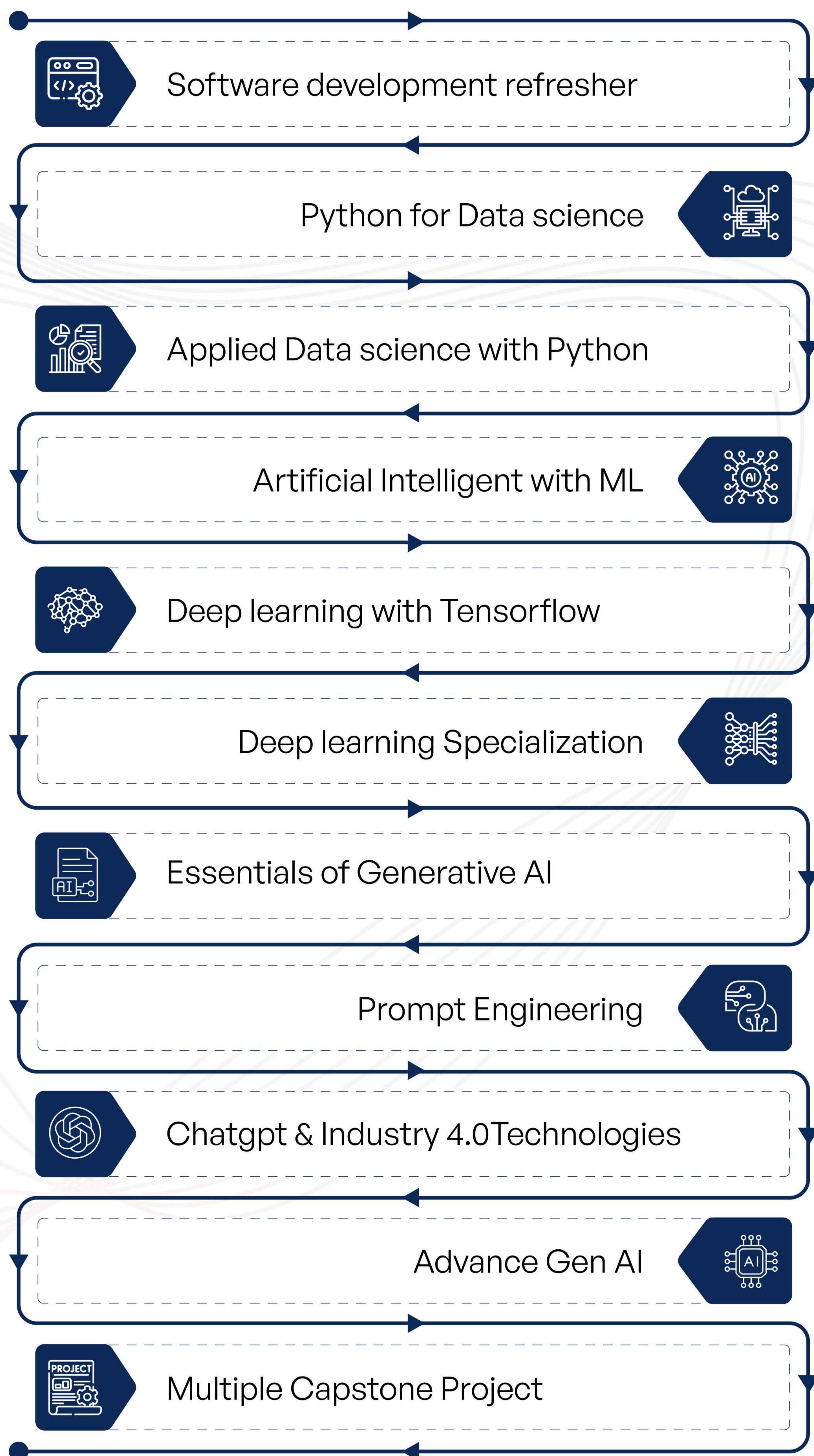
Self-learning AI models will reshape research, medicine & robotics

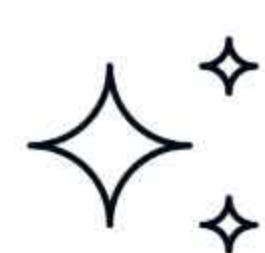
Future (By 2040 & Beyond)





Learning Path

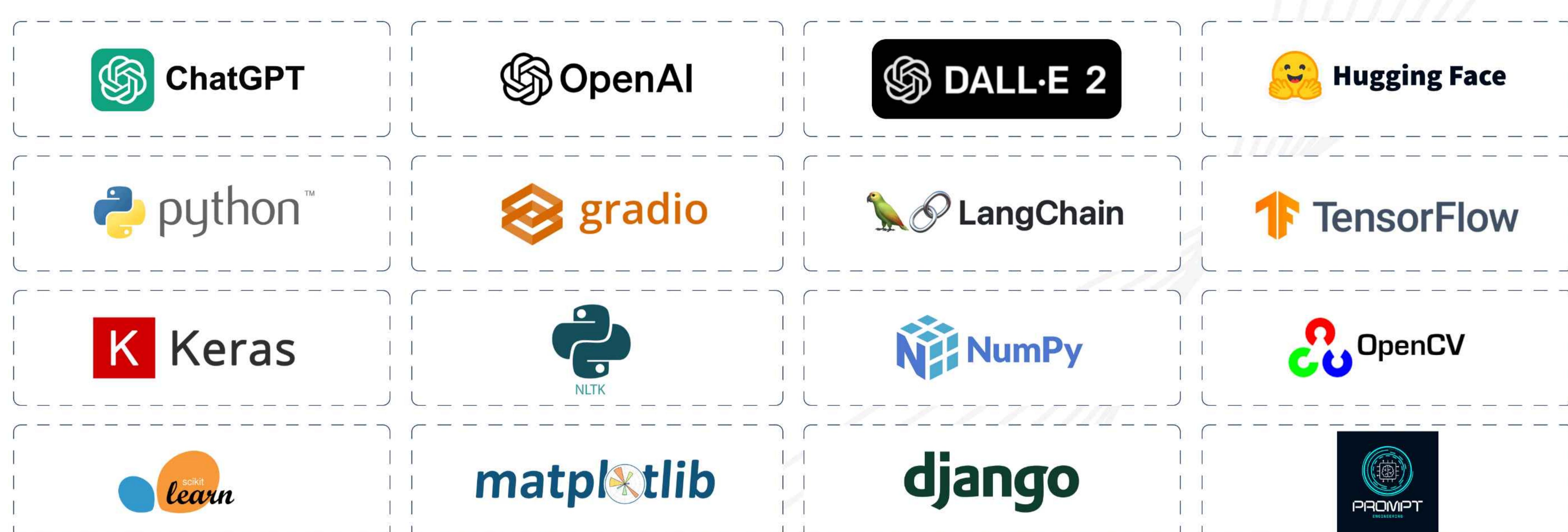




» Skills Covered

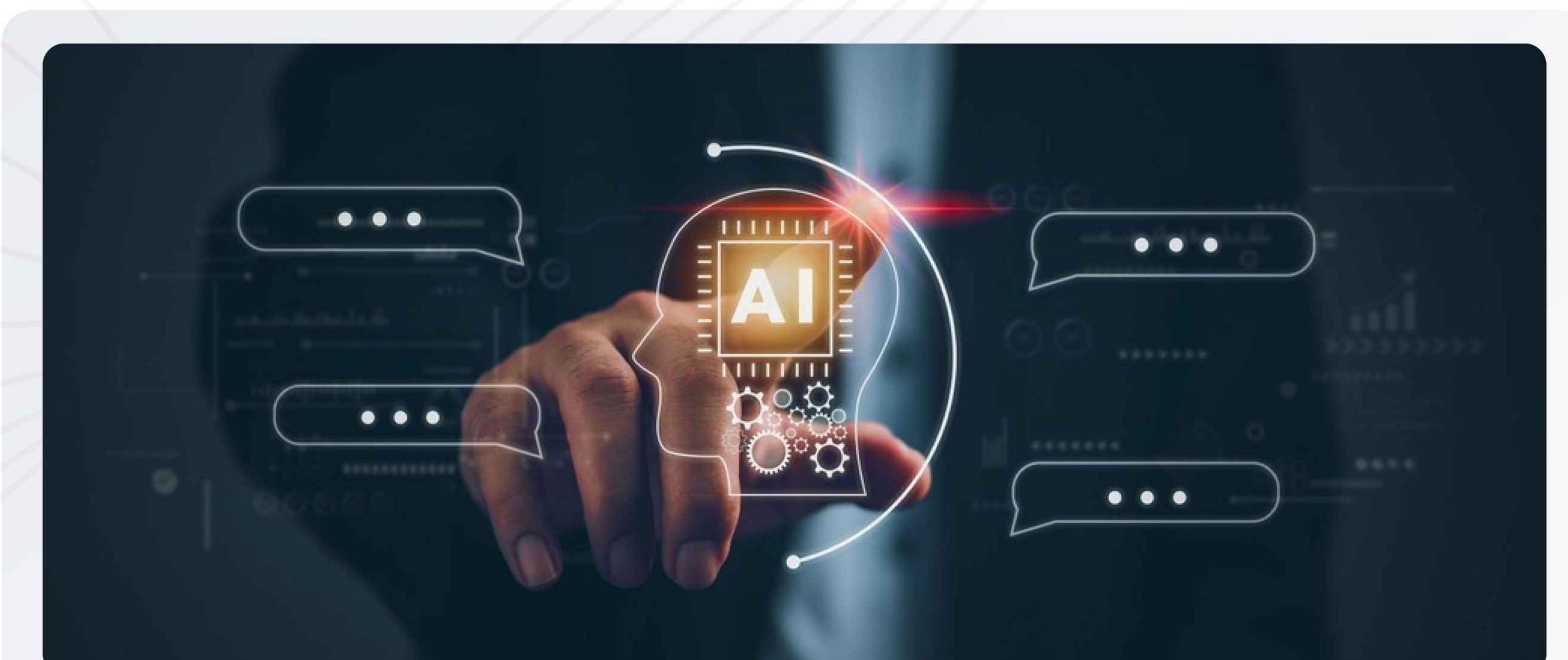
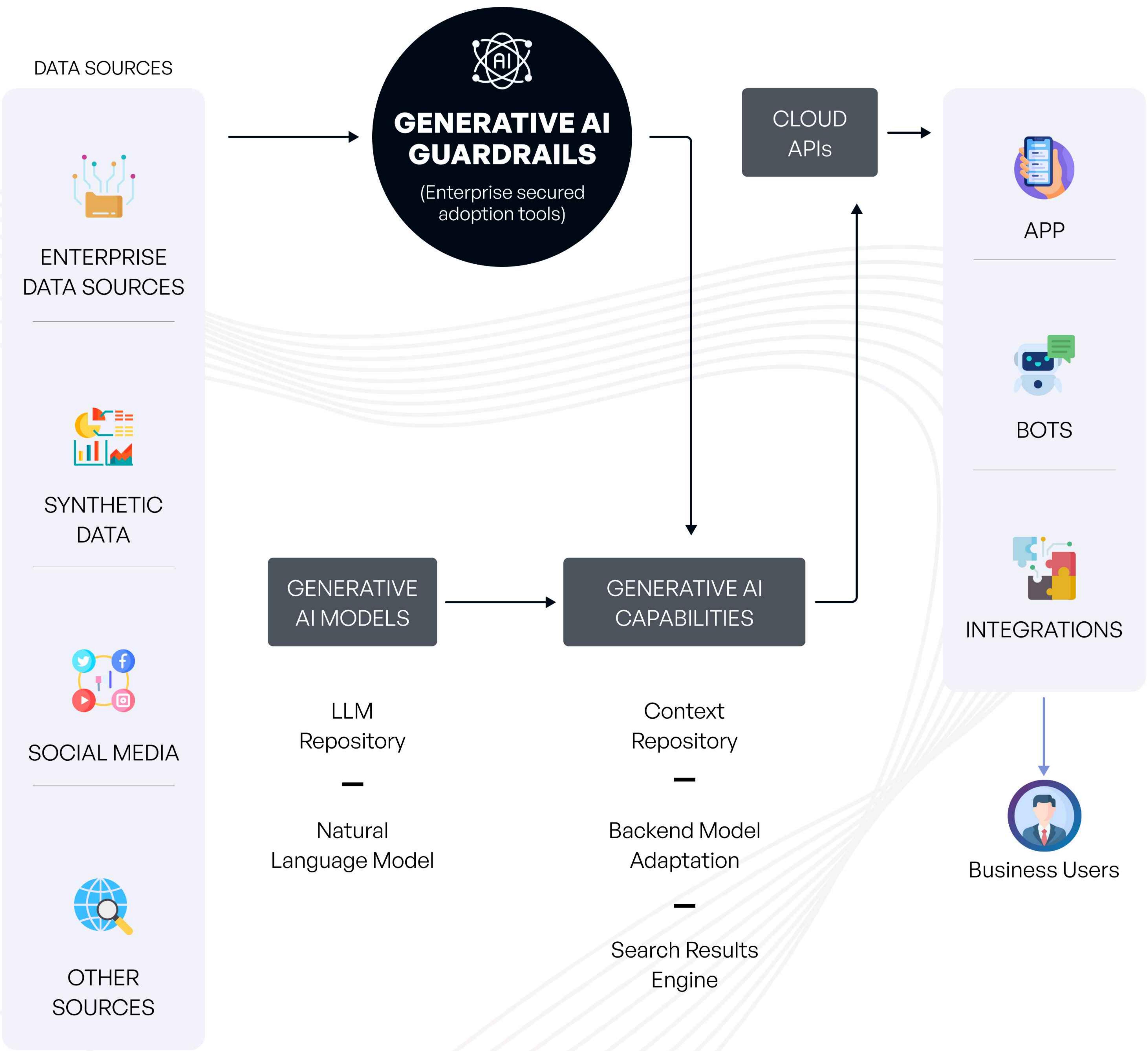
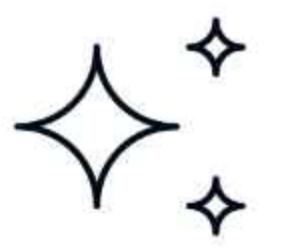
- ✓ Generative AI
- ✓ Prompt Engineering
- ✓ ChatGPT
- ✓ Machine Learning Algorithms
- ✓ Supervised and Unsupervised Learning
- ✓ Model Training and Optimization
- ✓ Model Evaluation and Validation
- ✓ Ensemble Methods
- ✓ Deep Learning
- ✓ Computer Vision
- ✓ Reinforcement Learning
- ✓ Natural Language Processing (NLP)
- ✓ Speech Recognition
- ✓ Statistics

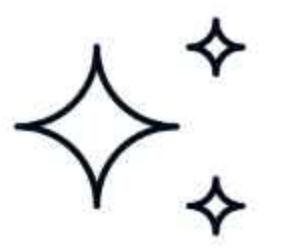
» Tools Covered



» Programming Tools, Languages and Libraries



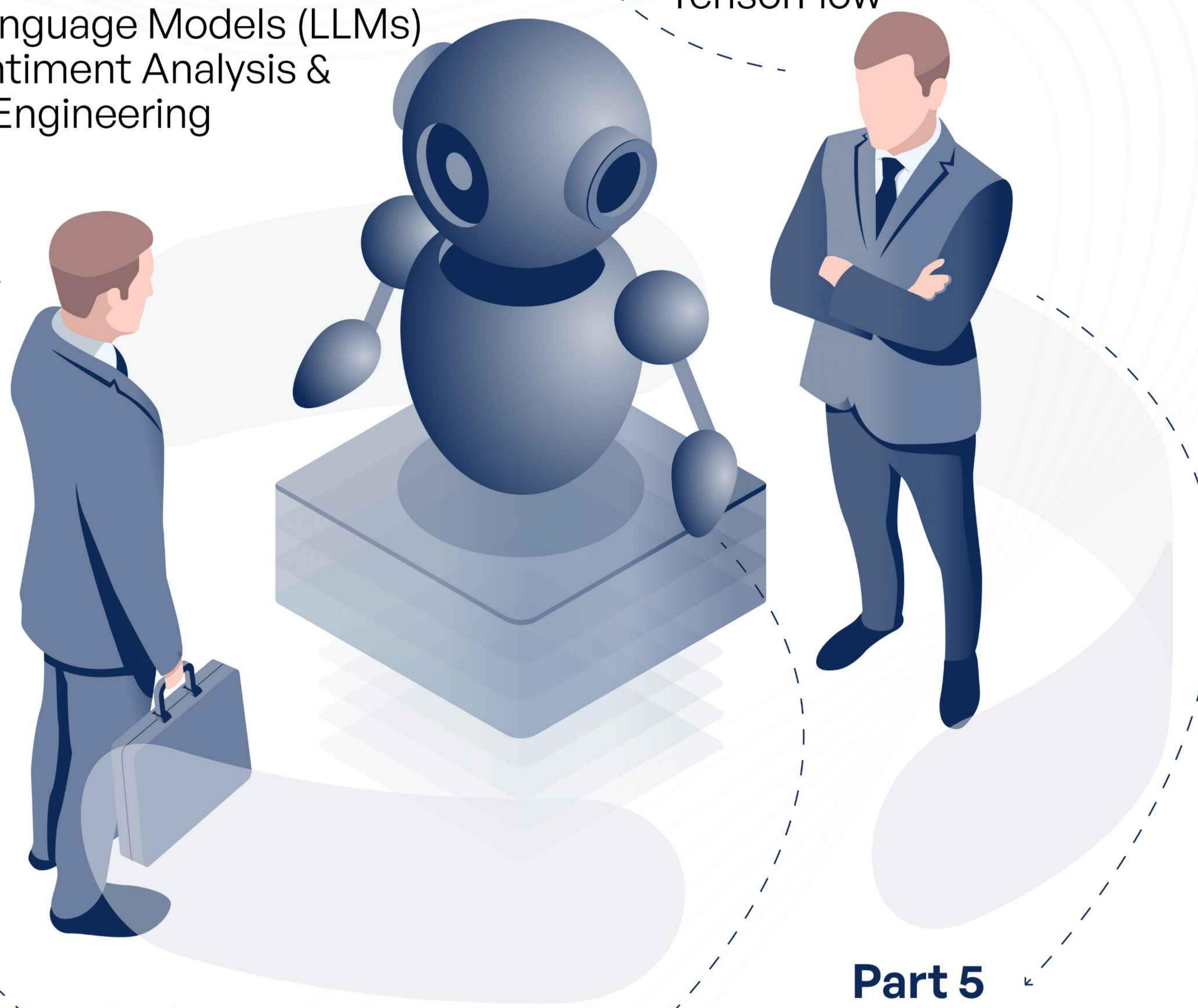




Part 2

Generative AI Techniques & Models

- Autoencoders, GANs, VAEs & Diffusion Models
- CNNs for Image Generation & RNNs for Text Generation
- Transformers, BERT, GPT & Large Language Models (LLMs)
- NLP, Sentiment Analysis & Prompt Engineering



Part 3 Model Deployment & AI in Action

- Deploying Models using Flask, Streamlit & Docker
- Cloud AI Services (Google Vertex AI, AWS, Azure)
- SQL & Applied Statistics for AI
- AI Coding Assistants (GitHub Copilot, Code Llama)

Part 1

Foundations of AI & Machine Learning

- Introduction to AI, ML & Deep Learning
- Supervised, Unsupervised & Reinforcement Learning
- Neural Networks, Deep Learning & Optimization
- Introduction to PyTorch & TensorFlow

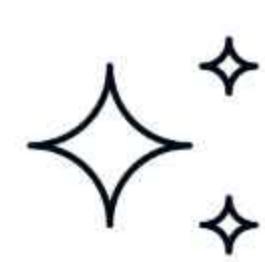
Part 5 Responsible AI & Capstone Project

- Ethical AI, Bias & Fairness
- Future Trends in AI (AGI, AI-driven Industries)
- Hands-on Capstone Project: End-to-End AI Model Development

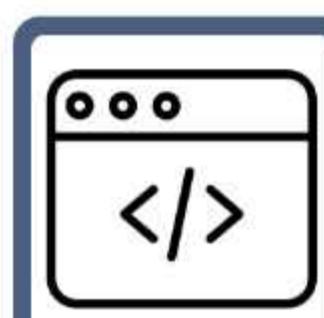
Part 4 Fine-Tuning, Customization & Optimization

- Transfer Learning & Fine-Tuning GPT/BERT
- Feature Engineering, Data Processing & AI Training
- Scaling AI Applications & Performance Optimization





► Generative AI & ML Full Course : Module Breakdown



Module 1

Foundations & Programming

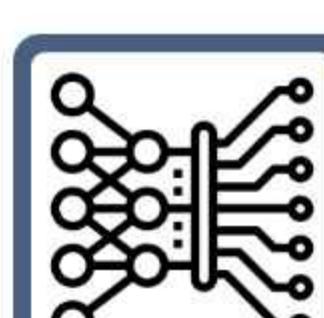
- AI, ML, DL, and Generative AI basics
- Real-world applications & ethics
- Python & SQL for AI and Data Science



Module 2

Math & Statistics for AI

- Statistics, Probability, Linear Algebra, Calculus
- Feature engineering for ML



Module 3

Machine Learning

- Supervised & Unsupervised learning
- Model building, evaluation, and tuning
- Ensemble methods and advanced ML techniques



Module 4

Deep Learning & Neural Networks

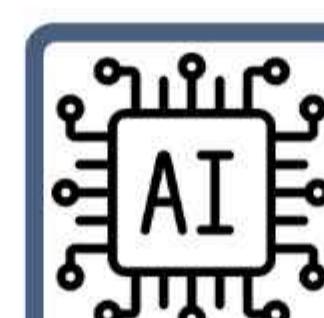
- ANN, CNN, RNN, LSTM, Transformers
- Backpropagation, optimization, regularization
- Computer Vision applications



Module 5

Natural Language Processing (NLP)

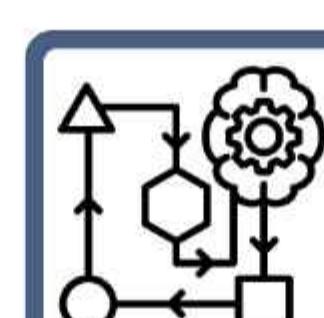
- Text mining, embeddings, sentiment analysis
- Transformers, LLMs, prompt engineering
- NLP applications with GenAI



Module 6

Generative AI Techniques

- Autoencoders & Variational Autoencoders
- GANs and advanced generative models
- Real-world GenAI applications



Module 7

Reinforcement Learning

- Q-learning and policy-based methods
- Deep RL techniques with OpenAI Gym

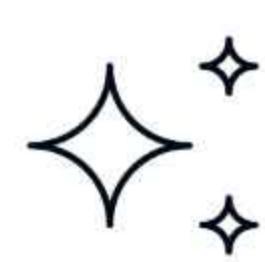


Module 8

Forecasting with Deep Learning

- ARIMA and deep learning-based forecasting
- Applications using RNN, LSTM, Transformers





► Generative AI & ML Full Course : Module Breakdown



Module 9

Model Deployment & MLOps

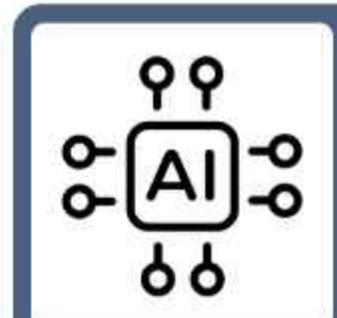
- Streamlit, Flask, Docker for deployment
- ML pipelines, CI/CD, monitoring, cloud deployment
- MLOps best practices



Module 11

Capstone Projects

1. End-to-end real-world projects
 - Data processing, model training, hyperparameter tuning
 - Deployment, monitoring, documentation
 - GitHub collaboration



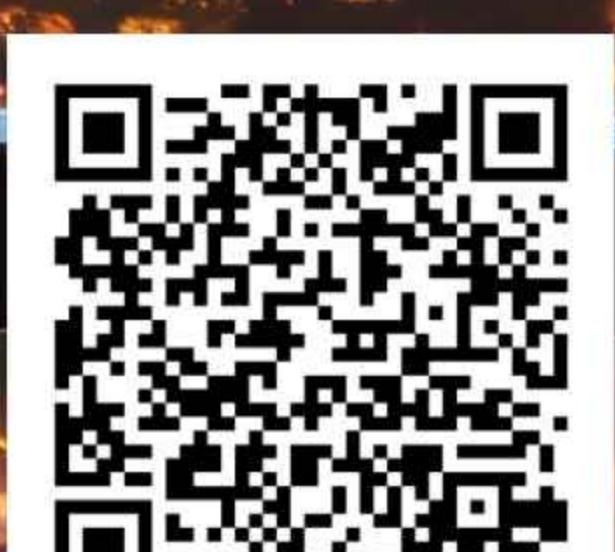
Module 10

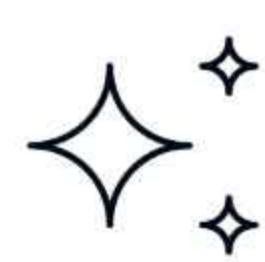
GitHub for AI & ML Projects

- Version control, workflows, collaboration
- GitHub advanced practices for project management

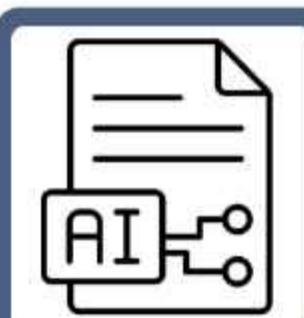
Add-On Module

Metabase





► Detailed Modules



Module 1

Foundations of AI, ML, and Generative AI

- Overview of AI, ML, DL, and Generative AI
- History and Evolution
- Real-world Applications (Chatbots, Content Creation, Image & Video Generation, Music)
- Ethics and Challenges in Generative AI
- AI vs Generative AI vs Descriptive AI

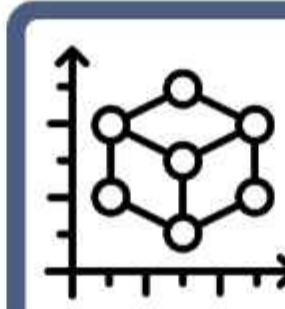


Module 2

Python for AI and Data Science

- Introduction to Python Programming
- Python IDEs: Jupyter, Anaconda, VS Code
- Libraries :
 - NumPy, Pandas, Matplotlib, Seaborn
 - NLTK, SpaCy, OpenCV, TensorFlow, Keras
- Data Preprocessing, Cleaning & Handling Missing Data
- Exploratory Data Analysis (EDA)
- Basic SQL for Data Science :
 - Queries, Joins, Aggregation, Business Insights

- Introduction to Django & REST APIs



Module 3

Mathematical & Statistical Foundations

- Statistics :
 - Descriptive & Inferential Statistics
 - Sampling, Hypothesis Testing
 - A/B Testing
- Linear Algebra :
 - Scalars, Vectors, Matrices
 - Vector Operations
- Calculus :
 - Derivatives, Optimization
- Probability :
 - Probability Spaces & Distributions
- Feature Engineering & Selection

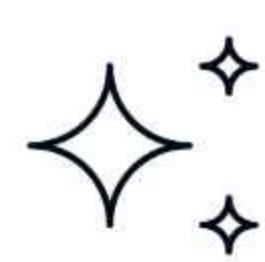


Module 4

Machine Learning Essentials

- Supervised vs Unsupervised Learning
- Algorithms :
 - Linear & Logistic Regression
 - Decision Trees & KNN





► Detailed Modules

- SVM
- K-Means & Hierarchical Clustering
- Train/Test/Validation Splits
- Evaluation Metrics



Module 5

Advanced Machine Learning & Ensemble Methods

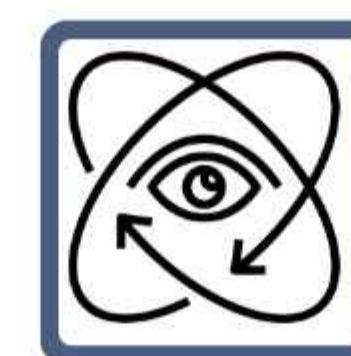
- Model Interpretability (SHAP, LIME)
- Ensemble Learning :
 - Bagging, Boosting, Random Forest
- Gradient Descent & Optimization
- Hyperparameter Tuning :
 - Grid Search, Random Search
- Cross-validation Techniques
- Handling Imbalanced Data



Module 6

Deep Learning

- Fundamentals of ANN
- Feed Forward & Backpropagation
- Activation & Loss Functions
- CNNs for Image Classification & Object Detection
- Hyperparameter Tuning for Neural Networks
- Regularization & Dropout Techniques



Module 7

Computer Vision with Deep Learning

- Introduction to Computer Vision
- Image Preprocessing & Augmentation
- Advanced CNN Architectures:
 - Object Detection Models (YOLO, RCNN variants, Mask RCNN)
 - Landmark Detection, Style Transfer
- Transfer Learning & Pretrained Models

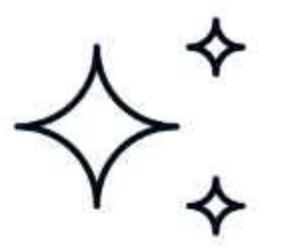


Module 8

Natural Language Processing (NLP) with Generative AI

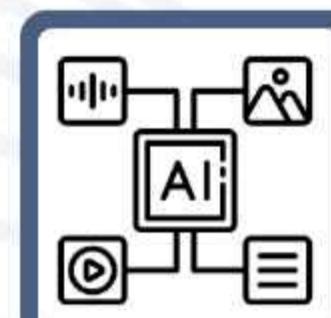
- Introduction to NLP & Text Processing
- Text Mining, Word Embeddings (Word2Vec, GloVe)
- Semantic Search & Similarity Measures
- Sentiment Analysis & Text Classification
- Transformers & Attention Mechanisms
- Named Entity Recognition (NER)
- Machine Translation (Hugging Face Libraries)





► Detailed Modules

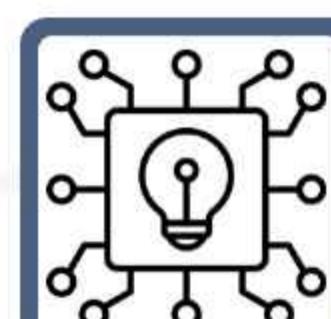
- Large Language Models (LLMs) & Prompt Engineering
- Retrieval-Augmented Generation (RAG)



Module 9

Advanced Generative AI Techniques

- Generative Models :
 - Autoencoders, Variational Autoencoders
 - GANs: Basics, Conditional GAN, InfoGAN, CycleGAN
 - Evaluation (Inception Score, FID)
- Generative AI Use Cases :
 - Text Generation
 - Image & Video Generation
 - Music & Content Creation
- AI Assistant Development
- Pretraining vs Fine-Tuning LLMs
- Fine-tuning LLMs for Custom Applications
- Bias Mitigation in Generative AI



Module 10

Reinforcement Learning (RL)

- Introduction to RL
- Q-Learning, Exploration vs Exploitation

- Deep RL Concepts:
 - Policy Gradient, Actor-Critic Methods
 - Proximal Policy Optimization (PPO)
- OpenAI Gym Library



Module 11

Forecasting With AWS

- Time Series Forecasting :
 - ARIMA
 - Deep Learning Models: RNN, LSTM, Transformer Applications

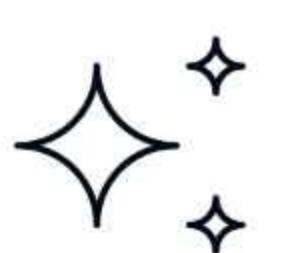


Module 12

Model Deployment and MLOps

- Introduction to MLOps & ML Lifecycle
- Model Deployment :
 - Streamlit, Flask
 - Containerization & Virtual Environments
 - Docker for Deployment
- ML Pipelines :
 - CI/CD for ML
 - Metadata Tracking, Monitoring
- Cloud Deployment Concepts
- Model Monitoring & Drift Handling





► Detailed Modules



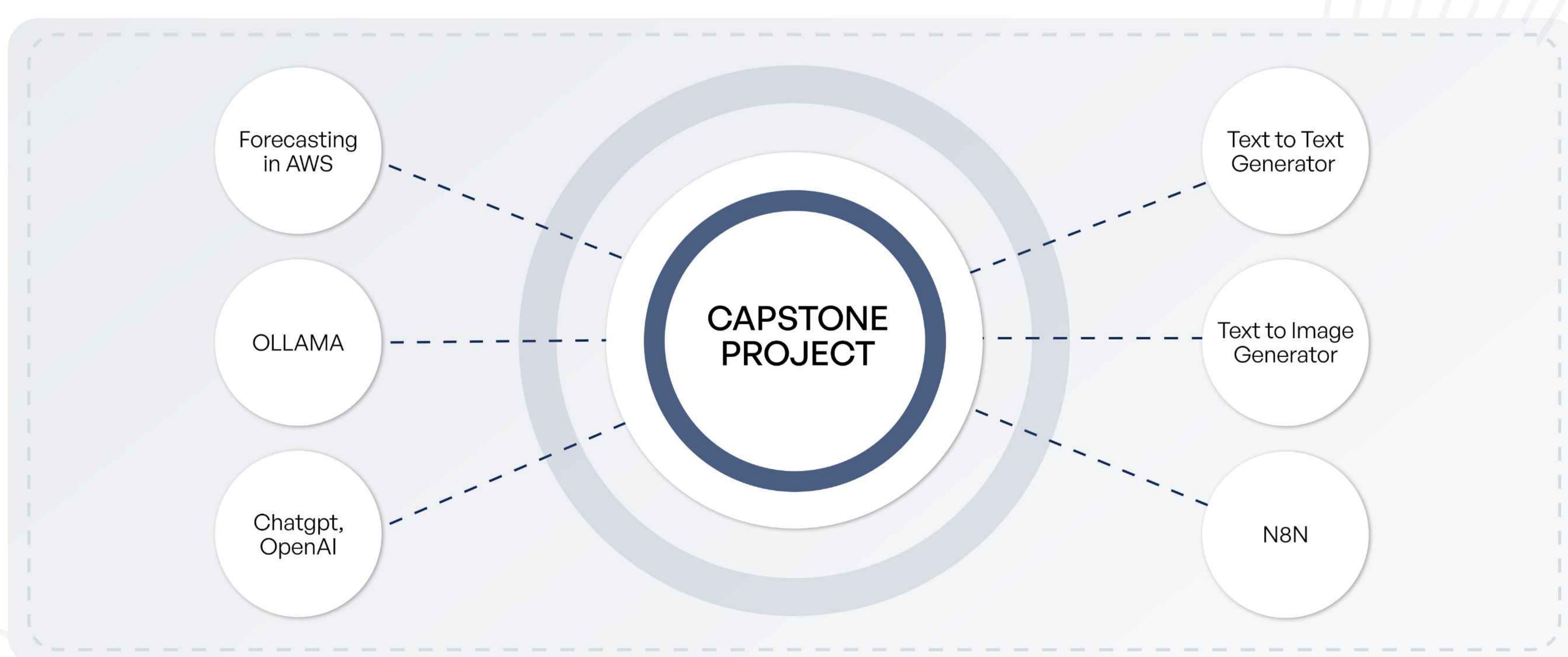
Module 13

GitHub for AI and ML

- GitHub Workflow & Version Control
- Working with Repositories
- Branching, Merging, Collaboration
- Advanced GitHub Features for ML Projects
- Security and Best Practices

Add-On Module

Metabase



Mon-Fri :

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



LEARNING PATH

Fri-Sat :

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



» Learning Outcomes

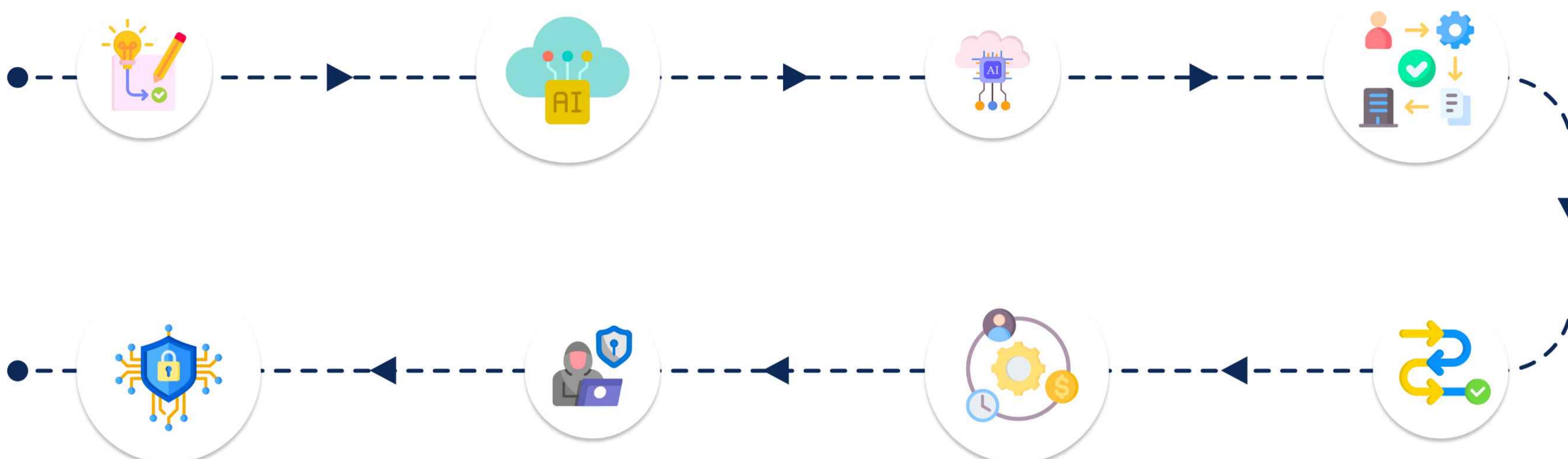
By the end of this course, students will be able to

Understand and implement Generative AI models (GANs, VAEs, Transformers).

Deploy machine learning models in cloud environments (AWS, Google Cloud, Azure).

Work with cloud-based AI/ML services (SageMaker, Vertex AI, Azure ML).

Apply AI techniques to solve real-world problems in manufacturing and automation.



Industry 4.0: Integrate cyber-physical systems, IoT, and cloud computing for AI-driven applications.

Implement ethical AI practices ensuring fairness, privacy, and transparency.

Optimize AI models for scalability, performance, and cost efficiency.

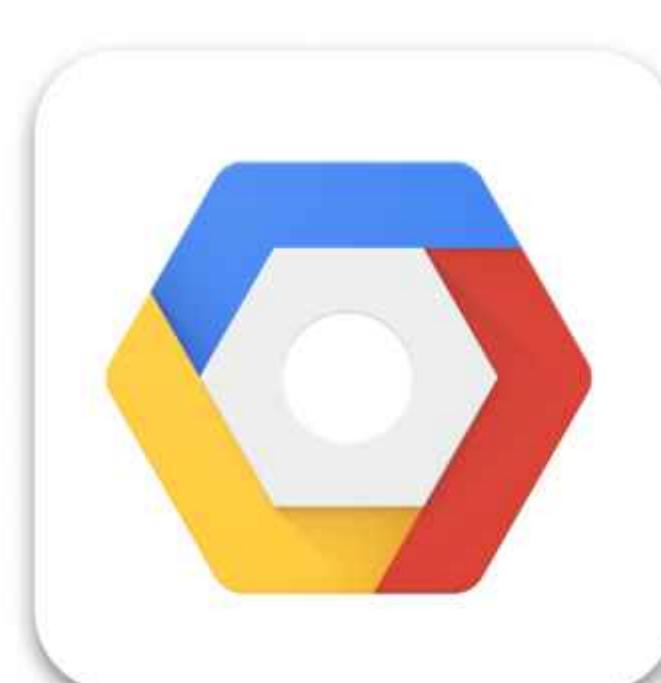
Develop, deploy, and maintain end-to-end AI/ML pipelines in a cloud-native environment.

» Certifications

Industry-recognized certification upon successful course completion.



AWS Gen AI Certification



GCP Gen AI Certification



Microsoft Gen AI Certification



Other market-available Generative AI certifications

» Regular Assessment



Quizzes to test conceptual understanding

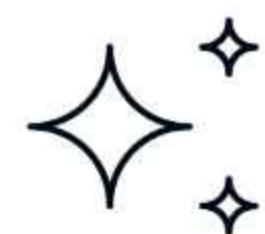


Assignments for hands-on practice.



Project evaluations based on real-world AI/ML applications



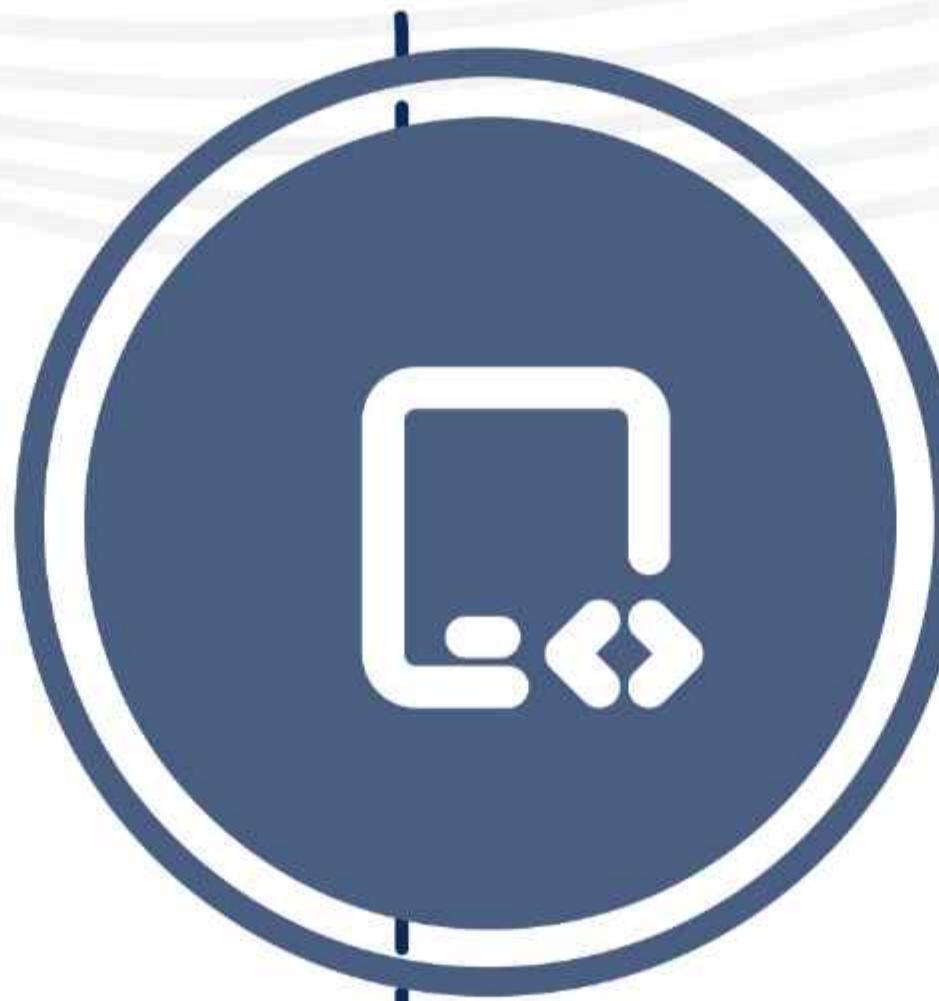


► Enrollment Process



Enquiry:

Contact us via our website or call us for details about the program



Counseling:

Schedule a one-on-one session with our career counselors to understand the best path for you



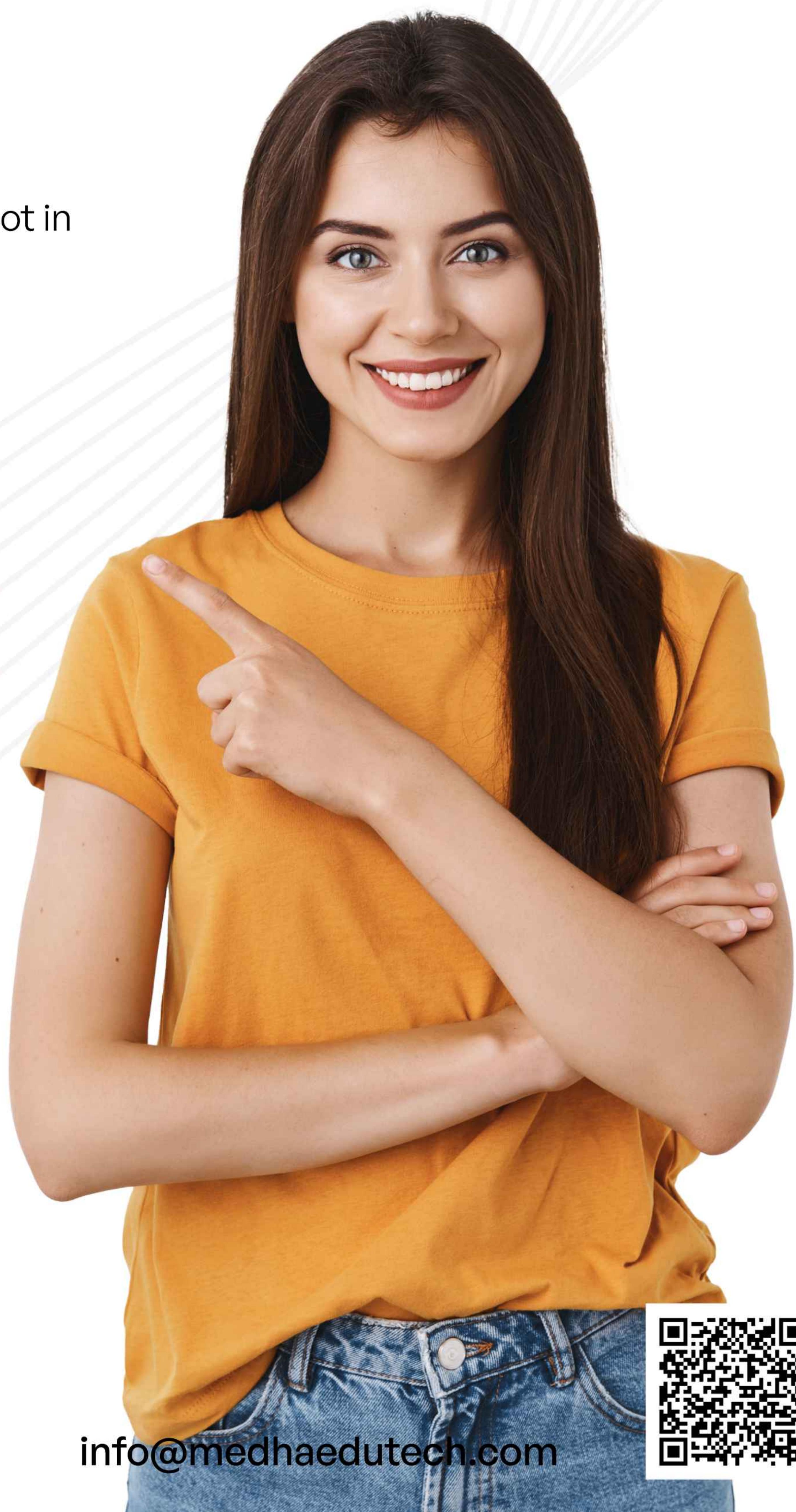
Registration:

Complete the registration process and secure your spot in the program

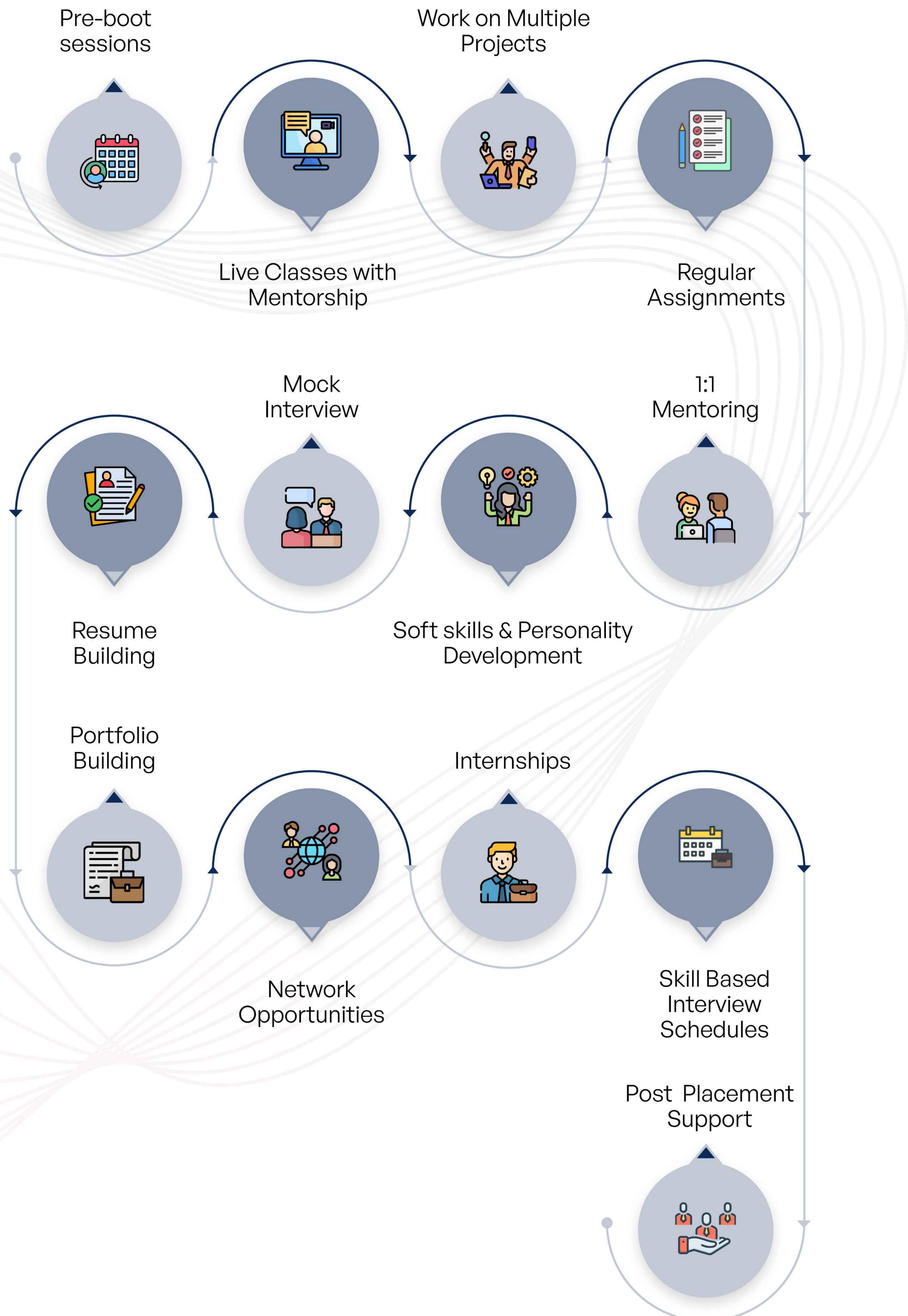


Become Future-Ready:

Enroll today and start your journey towards becoming an expert with Generative AI!



Job Placement Journey



Innovating the Future: Revolutionizing the Future with AI Technology

Master GenAI with machine learning, LLM workflows, and practical real-world projects.

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 | Data Science with Analytics & Generative AI | 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