



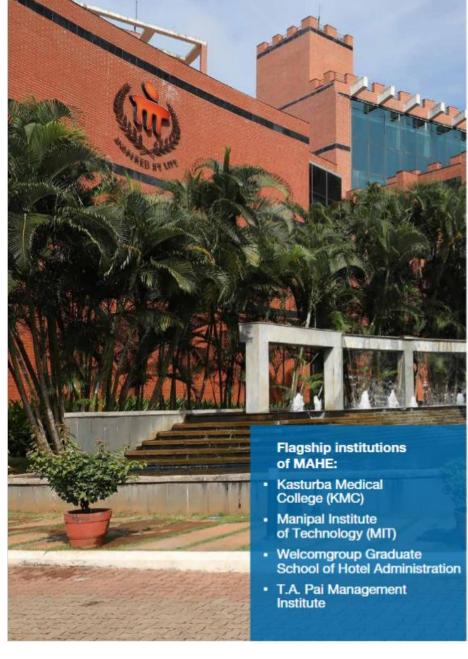


About MAHE



Started in 1953 with Kasturba Medical College, Manipal Academy of Higher Education (MAHE) is one of India's leading academic and research institutions. It is a globally engaged institution with active partnership with more than 250 leading universities around the globe.

It is NAAC A++ accredited and enjoys the status of 'Institution of Eminence' granted by the Ministry of Education, Government of India. It is amongst the handful of private institutions in India to have received this prestigious recognition, further accentuating its status as a world-class institution for higher education.





MAHE Rankings and Accreditations









2021 - University

Asia 194

2022

401-600

THE Impact Rankings - 2022



351-400

THE Young University Rankings - 2022



2

2021 - ICARE (Top Deemed University)





2

2022-23 - (Private University in India)



MAHE - Industry Collaboration

18 Research **Centers**

37 Institutes to support **Industry** collaboration



































Program Summary – WILP (Work Integrated Learning Program)

Sales Team

Pre Sales

Delivery Team Pre Sales

Gen Al Primer

Duration – 28 Hours

(5 Weeks)

- Gen Al Foundation
- Gen AI in Reality
- Tech behind AI
- Big Picture

Duration – 18 Hours (3 Weeks) **Pre Sales**

Delivery Team

Selling Gen Al Solutions

 Use-Cases across functions & Industries

Sales Team

- Storytelling
- Enabling Customer Conversations

Gen Al Project Delivery

Sizing, Resourcing, Executing, Testing, Productionalizing (LLMOps)

Duration – 22 Hours (4 Weeks)

*ILT (Instructor led training sessions) will be scheduled for 6 hours in a week



Learner Journey

Learner Category

- ❖ Sales 46 hours
 - Gen Al Primer
 - Selling Gen Al Solutions
- ❖ Pre Sales 68 Hours
 - Gen Al Primer
 - Selling Gen Al Solutions
 - Gen Al Project Delivery
- ❖ Delivery 50 Hours
 - Gen Al Primer
 - Gen Al Project Delivery

Learning Structure

- Lectures
- Interactive workshops and hands-on labs
- Case studies
- Graded Assignments
- Storytelling
- Roleplays
- Doubt clearing sessions
- ❖ Post read materials
- Immersion at MAHE or Client Campus

Learner Certification



Certificate in Generative Al provided by MAHE (Manipal Academy of Higher Education)









Gen Al – Primer (1/2)

SI No	Module	Topic	Content
1	Gen-Al Foundations	Al Maturity, Al Canvas, Al Radar	 Key technologies: Machine Learning, Natural Language Processing, Deep Learning What is Generative AI? Overview of AI models like LLMs, GPT, DALL-E, and their capabilities
2		Impact of Gen AI in Business	 How AI is transforming various industries Benefits of AI to businesses: Efficiency, scalability, personalization
3		Competetive advantage in Gen AI	Data and Domain expertise
4		Ethical considerations and compliance	 Understanding AI ethics and compliance Data privacy and security in the use of AI
5		Industry Challenges	Challenges of organizations to implement the unknown
6	Gen AI in Reality	Industry Case Studies	Industry Case Studies



Gen Al – Primer (2/2)

SI No	Module	Topic	Content		
7		Architecture	 Different architectures for generative models (e.g., convolutional neural networks, transformers) The role of attention mechanisms in generative AI 		
8		Prompt Engineering	 Techniques for crafting effective prompts for generative models How to use prompts to control the style and content of generated outputs 		
9		Vector Database	 Different types of vector databases suitable for generative AI How to store and query vectors efficiently Techniques for indexing and searching vector databases 		
10	Tech Behind AI	Agents	 Different types of agents used in generative AI (e.g., reinforcement learning agents, imitation learning agents) How to train agents to interact with generative models Applications of generative AI agents in real-world tasks 		
11		Foundational Models	 The role of foundational models in generative AI Different approaches to training foundational models 		
12		Open Source	 The importance of open source software in generative AI Popular open source generative AI tools and libraries 		
13		Customizing Gen Al for specific needs	RAG modelLLM finetuning		
14		Gen Al Ops	 The challenges of managing generative AI models in production Tools and techniques for monitoring and debugging generative models 		
15		Technology Forecasting	 Emerging trends in generative AI The potential impact of generative AI on society How to prepare for the future of generative AI 		
16	Big Picture	Future proofing the Organization	 How to use generative AI to gain a competitive advantage Strategies for adopting generative AI within an organization 		
17		Societal Context	 The ethical implications of generative AI The potential for bias in generative AI models How to mitigate the risks of generative AI Total Duration -28 Hours (5 Weeks)		

Total Duration -28 Hours (5 Weeks)



Selling Gen Al Solutions

SI No	Module	Topic	Content			
1	* Sample Gen AI Use- Cases across functions & Industries	Gen Al in BFSI	 Risk assessment, fraud detection Customer service automation, propensity to buy Al in algorithmic trading and wealth management 			
		Gen AI in Manufacturing	 Predictive maintenance Supply chain optimization Quality control 			
2						
3		Gen Al in Retail & e-commerce	 Personalized shopping experiences Inventory management Demand forecasting 			
	Storytelling in the context of Gen AI – Tech forecasting					
4	Enable customer conversations and co-create solutions					
5	Role Play for a Customer conversation on a Gen AI opportunity					
Total Duration -18 Hours (3 Weeks)						



^{*} Use Cases will be customized to include specific industry verticals

Gen Al – Project Delivery

SI No	Module	Topic	Content		
1	Gen-Al Project Delivery	Documenting GenAI requirements	 Considerations Things to watch out for in GenAl context, capabilities 		
2		GenAl project sizing	Team structureSkills required and typical team rolesHow to do effort sizing?		
3		GenAI frameworks and models	 Huggingface Replicate LLMs – opensource and closed source 		
4		Optimizing the models	PerformanceReducing hallucinations		
5		Fine Tuning the model	Prompt EngineeringRAGFull fine tuning / PEFT		
6		GenAl Model Deployment options	 On-prem vs Cloud Cloud deployment options (Azure, AWS) Enterprise GenAI (OpenAI) 		
7		Hands-on Lab	Building a chat interface with Langchain, Pinecone and Huggingface		
8	Mock Project – Designing a Gen Al Solution				
Total Duration - 22 Hours (4 Weeks)					







Trainer Profile — Raghu (1/2)



Raghu Cavale

Engineer, Salesman and Teacher

Qualification

Bachelor's Degree in Civil Engineering-1977-1982; NIT, Vishakhapatnam

Master's Degree (MS)-1984(Indian Institute of Technology, Madras

Adamas University - Doctor of Philosophy - PhD, Honoris Causa Feb 2024

Experience Summary:

39+ years of experience in the technology space with vast knowledge across various domains and sectors. A hand's on technologist and have learnt and implemented technology constantly.

Practical Experience:

- Have implemented AI in many large programs for the Government
- Worked with private sector in Logistics, Banking and Insurance
- Worked in Defence and Homeland Security

Academic Exposure

- Taught AI in medicine at Manipal University, IIT-KGP and Trivandrum Medical College
- Taught Smart-Grids which includes Big Data and AI for transmission systems and distribution systems. A special topic war Micro-Grids powered by AI
- > Taught Computer Vision at Military College Mhow
- Delivered a full 36 hour course on Enterprise Data Architecture which includes architecting large AI systems and Hybrid systems
- Algorithmic trading which includes Al coupled with Time Series and Random walk
- Curated and got approvals to teach a 36 hour course on Logical AI which includes Knowledge Representation and Ontology
- Taught Generative AI as a full semester course
- Performance enhancement of large AI systems
 - Geo-Spatial maps
 - Logistics
 - Robots

Core Skill Sets:

► IT Strategy, AI, Generative AI, Program Management, Project Management, Business Development, Business Strategy, Consulting, Saas,



Trainer Profile — Raghu (2/2)



Raghu Cavale

Engineer, Salesman and Teacher

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Bachelor's Degree in Civil Engineering-1977-1982; NIT, Vishakhapatnam

Master's Degree (MS)-1984(Indian Institute of Technology, Madras

Adamas University - Doctor of Philosophy - PhD, Honoris Causa Feb 2024

Work Experience:

- Director: Manipal Academy for Higher Education (Jan 2022 Till date)
 - Adjunct Professor, Data Science, MIT
 - · Head, MILES-Manipal Innovation Leadership and Entrepreneurship School
- ▶ India Mentor; Falcon X Incubator (Feb 2022 Till date)
 - Falcon X is a Silicon Valley start-up incubator set up by very successful Entrepreneurs of Indian Origin
- ➤ Industry Adviser-Digital-Global Environment Fund, South Asia (Feb 2022 Till date)
 - GEF is a sustainability fund. Work with them in the power sector
- Founder-IndyGenie
 - A Generative AI company
- ➤ Senior Adviser-Infosys (Sep 2021 March 2023)
- > Senior Vice-President and Head of India Business Infosys (1999 Sep 2021)
 - ➤ Built the India business from nothing to a 100million US\$+ with a healthy PBT
 - My role was that of a CEO for India (since2010) and I was responsible all functions-Sales, Delivery, HR, Finance etc. My KPI is Revenue, Profit before Tax, Customer Satisfaction and Employee Satisfaction.
 - > Have a good business network both in the Public and Private Sector in India
 - Have bid, won and executed some of the largest and most visible digital projects in India including GST, Income-Tax, MCA, Payments bank etc.
 - Have created a lot of traction in the private sector and executed projects in the Machine Learning and digital space.
 - > Have built a good team with minimal attrition among the direct reports

Other affiliations:

- Member Board of Governors of Manipal University Technology Incubation Board (A University VC fund)
- ➤ Member Board of Studies Manipal Institute of Technology
- Member Board of Governors of International Clinical Epidemiology Network (A health research organization) –Head the Finance Committee



Next Steps...

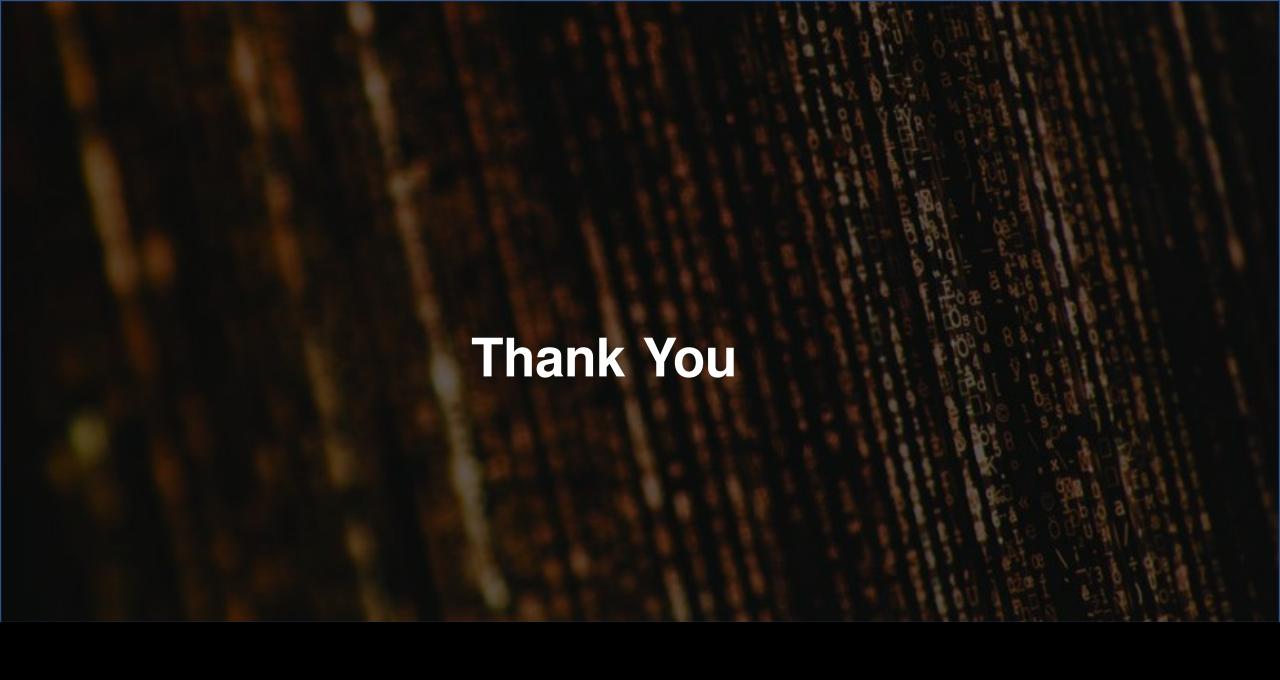
Agreement on Academic Proposal

Commercial Proposal from UNext

Closure on Commercials

Commercial Program





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