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CERTIFIED GENERATIVE AI PROGRAM BROCHURE



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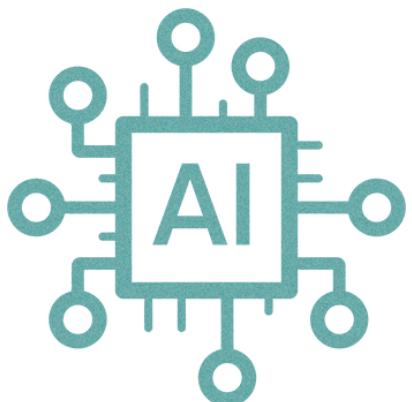
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WHY VIRAJETECH?

“OUR VISION”

To be the safest, most progressive Technology Provider, relentless in the pursuit of Client and employee excellence

The Best Placement records in the Industry **virajetech** Placement Team assisted thousands of aspirants in transitioning to Data Science career



EXPERT TRAINERS

10+year experienced and Industry Experts
Elite Faculty from Prestigious universities with deep research and coaching expertise



COMPREHENSIVE

30 hours & 700+ Learning Hrs.
Syllabus aligned with virajetech standards and rigorously updated to match with latest industry requirements

JOB ASSISTANCE

End to End job Support
Personalized resume and interview preparation support Job updates and connects

REALTIME EXPERIENCE

Projects and Internships
20 capstone projects and 1 client projects with active interaction
Internship -developing POCs

PROGRAM STRUCTURE

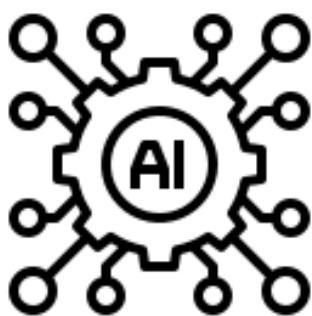
THE COURSE FOR BEGINNER'S PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF AWS THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION



- PRE COURSE SELF-STUDY
- HIGH QUALITY VIDEOS WITH EASY LEARNING APPROACH.
- CERTIFICATIONS
- JOB READY PROGRAM
- LIVE TRAINING
- 20 HOUR A WEEK
- 2-MONTH DURATION
- COMPREHENSIVE SYLLABUS
- HANDS-ON PROJECTS
- EXPERT TRAINERS AND MENTORS



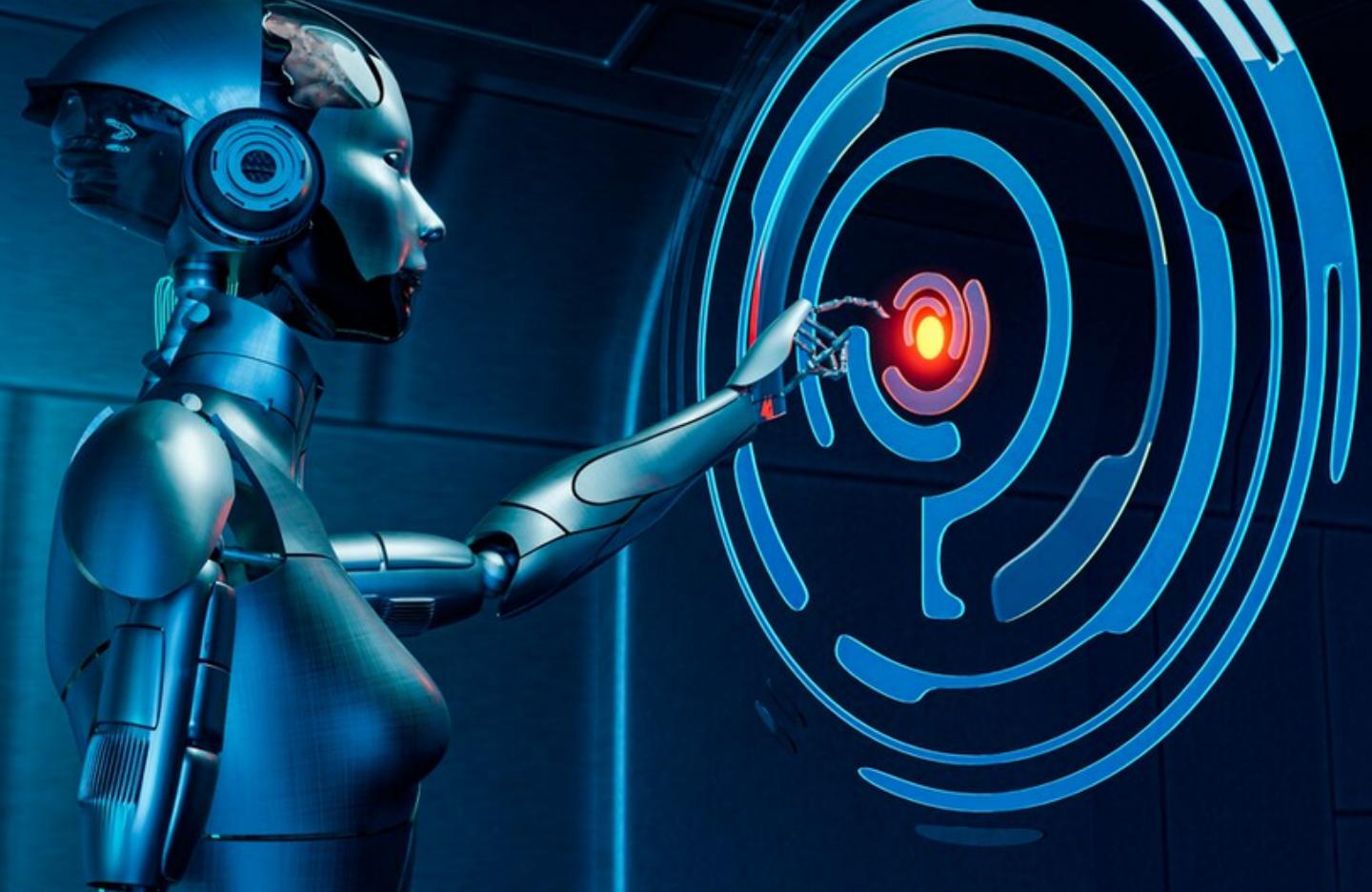
GENERATIVE AI



WHY GENERATIVE AI?

Generative AI courses are crucial in IT, providing professionals with the expertise to leverage advanced models like GPT. They facilitate understanding and application in areas such as natural language processing and creative content generation, driving innovation across industries. Professionals with generative AI skills play a key role in developing applications that comprehend and generate complex data, contributing significantly to technological advancement.

These courses cover creative content generation, user personalization, and task automation, empowering individuals to explore innovative approaches. Emphasis is placed on ethical considerations, allowing professionals to navigate responsibly within this evolving field. As demand grows for those proficient in generative models, these courses open doors to impactful careers in research and development. In essence, they serve as gateways to dynamic roles at the forefront of technological evolution.



1. Introduction to Generative AI

- ***Definition and Evolution of Generative AI***
- ***Pioneers and Key Researchers in the Field***
- ***Historical Milestones: From Early Models to GPT-4***
- ***Industry-Specific Applications: Healthcare, Finance, Entertainment***
- ***Ethical Considerations: Bias, Fairness, and Responsible AI***
- ***Future Trends and Emerging Paradigms: Quantum Generative AI***

2. Fundamentals of Generative Models

- ***Advanced Probability Distributions in Generative Models***
- ***Autoencoders: Variational Autoencoders (VAEs), Stacked Autoencoders***
- ***Markov Chains: Higher-Order Chains and Non-Stationary Processes***

- *Hidden Markov Models (HMMs): Applications in Speech Recognition*
- *Bayesian Generative Models: Bayesian Neural Networks (BNNs)*
- *Practical Implementations: Case Studies and Hands-On Exercises*

3.In-depth Exploration of GANs

- *Beyond Basic GANs: Wasserstein GAN, InfoGAN*
- *GANs for Data Augmentation: Techniques and Best Practices*
- *Defense Mechanisms Against Adversarial Attacks*
- *Evolution of GANs in Image-to-Image Translation*
- *Cutting-edge Research: Current Challenges and Solutions*
- *Guest Lecture by GAN Research Expert: Q&A Session*

4.Sequence Generation with RNNs

- *Advanced RNN Architectures: Long Short-Term Memory Networks (LSTMs)*
- *Attention Mechanism: Multi-Head Attention and Self-Attention*
- *Neural Machine Translation with Sequence-to-Sequence Models*
- *Contextual Embeddings: BERT and XLNet*
- *Overcoming Challenges in Long-Term Dependencies: Techniques and Research*

5.Transformer Models and Attention Mechanism

- *Transformer Variants: XLNet, T5, and GPT-3*
- *Transformer Interpretability: Attention Visualization*
- *Pre-training and Fine-tuning Strategies for Transformers*
- *Transformers Beyond NLP: Image Generation and Reinforcement Learning*

- *Ethical Considerations in AI Language Models*
- *Future Directions in Transformer Research*

6.Hands-On Projects

- *Implementing Advanced GANs: StyleGAN2, BigGAN*
- *Natural Language Generation with Large Language Models*
- *Fine-tuning Transformer Models for Custom Tasks*
- *Debugging and Optimization Strategies in Generative AI Projects*
- *Collaborative Coding Session: Peer Code Reviews and Feedback*

7.Ethical Considerations in Generative AI

- *Unpacking Ethical Dilemmas in AI-generated Media*
- *Societal Implications of Deepfakes and Synthetic Content*
- *AI for Good: Generative Models in Humanitarian Efforts*
- *Responsible AI Research Practices and Publishing Guidelines*
- *Interactive Panel Discussion: Balancing Innovation and Ethical Considerations*

8.Advanced Applications

- *Meta-Learning and Transfer Learning in Generative Models*
- *Deep Generative Models for Drug Discovery*
- *Generative AI in Climate Science: Earth System Modeling*
- *Interactive Storytelling with AI: Challenges and Opportunities*
- *Real-world Industry Projects: Showcasing Innovative Implementations*

9.FUTURE TRENDS AND INNOVATIONS

- ***State-of-the-Art Research: Recent Papers and Breakthroughs***
- ***Quantum Computing in Generative AI: Current Landscape***
- ***Blockchain and Generative AI: Decentralized Applications***
- ***OpenAI's Research Roadmap: Implications for the Future***
- ***Student-led Discussions on Emerging Trends and Opportunities***

10.CAPSTONE PROJECT

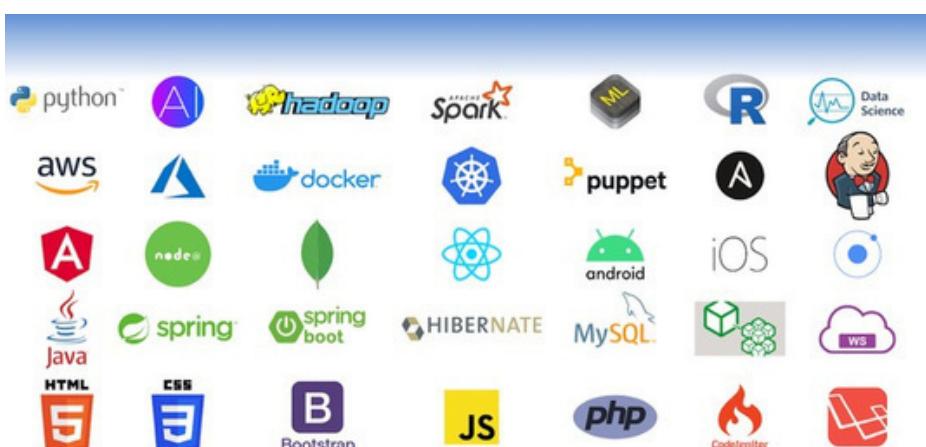
- ***Extended Project Development Phase: From Prototyping to Optimization***
- ***Advanced Features Implementation: Incorporating State-of-the-Art Techniques***
- ***Capstone Project Presentation: Live Demonstrations and Q&A***
- ***External Expert Review: Feedback from Industry Practitioners***
- ***Reflection and Learning: Extracting Key Insights from the Capstone Experience***

INTERNSHIP

Explore valuable internship opportunities with us! Join a dynamic and innovative environment, collaborate on real-world projects, and enhance your skills. We're seeking motivated individuals with a passion for learning and strong communication skills. This internship offers hands-on experience, exposure to industry best practices, and potential career pathways.



VIRAJETECH EXPERTISE CLASS



VIRAJETECH EXPERTISE CLASS

PLACEMENT ASSISTANCE TEAM



PROJECT MENTORING

100 hours Mentoring in projects live industry

INTERVIEW QUESTIONS

Frequently asked interview questions course included

DOUBTS SESSIONS

Twice a week, Live doubts session from mentors and experts

RESUME SUPPORT

Personalized resume creation support from professionals

ALUMNI CONNECT

Connect with successful Alumni to learn from experience

JOB COUNSELLING

Mapping your profile to suitable job role

PLACEMENT ASSISTANCE

KANTAR

IQVIA™

genpact

Capgemini

cognizant

SymphonyAI

SagasIT
Analytics

amazon

EXAMROOM.AI

Affine
Data > Insights > Transformation

accenture

SUTHERLAND

TATA
CONSULTANCY SERVICES



Mercedes-Benz

HCL

OUR LEARNER'S FEED BACK

HIGHEST LEVEL OF CUSTOMER DELIGHT

 **ruchi s**
1 review · 3 photos
 3 months ago

VirajeTech has been a game-changer for me. Their training courses have provided me with the skills I needed to excel in my career 4X. The instructors and Arjun sir are passionate about what they do, and it shows in their teaching. Hands on and practical way of teaching, I highly recommend VirajeTech to anyone looking to further their knowledge and skills

 **Anoop G**
6 reviews
 3 months ago

Getting placed at Amency was a dream come true, and I owe a big thank you to VirajeTech for making it possible. The instructors were experts in their field, and they created a supportive learning environment. The hands-on approach and practical exercises made all the difference.

 **Sachidanand Shahane**
3 reviews
 7 months ago

I am part of the AWS Associate master Class. The course was designed in a fashion that we are able to cover most of the content in a very short time. our trainer Kumar sir clarified any doubt we had and also pushed us to do the practicals which is really helpful in the learning process. Hi having vast knowledge and experience in Devops and Multi cloud platform(AWS,Azure,GCP),he provide the opportunity to get as much knowledge and guidance as possible. each session are interactive has real time use cases.

 **Sayali Gawde**
2 reviews
 a year ago

Thanks for the AWS tutoring by Virajtech. The best decision I have taken in my career so far. Instructor was very helpful and gave all possible solutions related to the problem which we faced in real time scenarios. This is what I have experienced in this course, a very practical and beneficial one.

 **Piyush Poply**
2 reviews
 3 years ago

I am connected with this organization since its inception. This is one of the best places to learn, practice and grow your skills up to the standards of the industry. As in IT industry, maintaining your skills and updating yourself is the most important thing, we should never stop learning and this is exactly what this institute provides. The online classes are really great as well as the trainers.

 **Harpreet Singh**
12 reviews
 7 months ago

Give very detailed explanation and also live teaching classes. Covering all latest topics which for sure help in getting jobs in today's market

ADMISSIONS AND CONTACTS

ENQUIRE FOR DETAILED INFORMATION FOR ENROLLMENT

DURATION:35 HOURS

LEARNING : ONLINE MODE

b 1st floor, 64, 3rd Cross Rd, Electronics City Phase

1, Electronic City, Bengaluru, Karnataka 560100

PHN NO:8618501719



8 HRS/WEEK

SELF STUDY



8 HRS/WEEK

INSTRUCTOR LED LIVE ONLINE LEARNING



4 HRS/WEEK

PROJECTS & ASSESSMENTS

20 HOURS A WEEK COMMITMENT



GENERATIVE AI IS RATED AS **THE TOP CAREER**



HIGHEST PAID – RECESSION PROOF – MILLIONS OF JOBS

TAKE YOUR FIRST STEP TOWARDS GENERATIVE AI CAREER

ENQUIRE NOW

THANK you



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[telegram link](#)



[virajetech whatsup link](#)