VIRAJE TECH

CERTIFIED PROMPT ENGINEERING
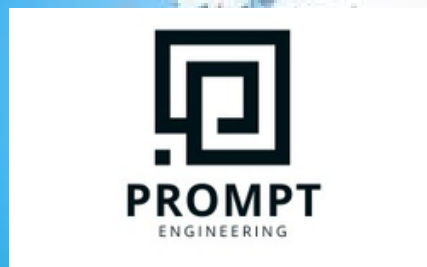
PROGRAM BROCHURE

PROMPT
ENGINEERING

TABLE OF CONTENTS

VIRAJETECH
E - Learning Platform

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

PROMPT
ENGINEERING

EXPERT TRAINERS

10+year experianced and Industry Experts

Elite Faculty from Prestigious universities with deep research and coaching expertise

JOB ASSISTANCE

End to End job Support

Personalized resume and interview preparation support Job updates and connects

COMPREHENSIVE

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

REALTIME EXPERIENCE

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

VIRAJETECH
E - Learning Platform

PROGRAM STRUCTURE

THE COURSE FOR BEGINNER'S PROFESSIONALS AND INTERMEDIATE LEARNERS IN THE FIELD OF

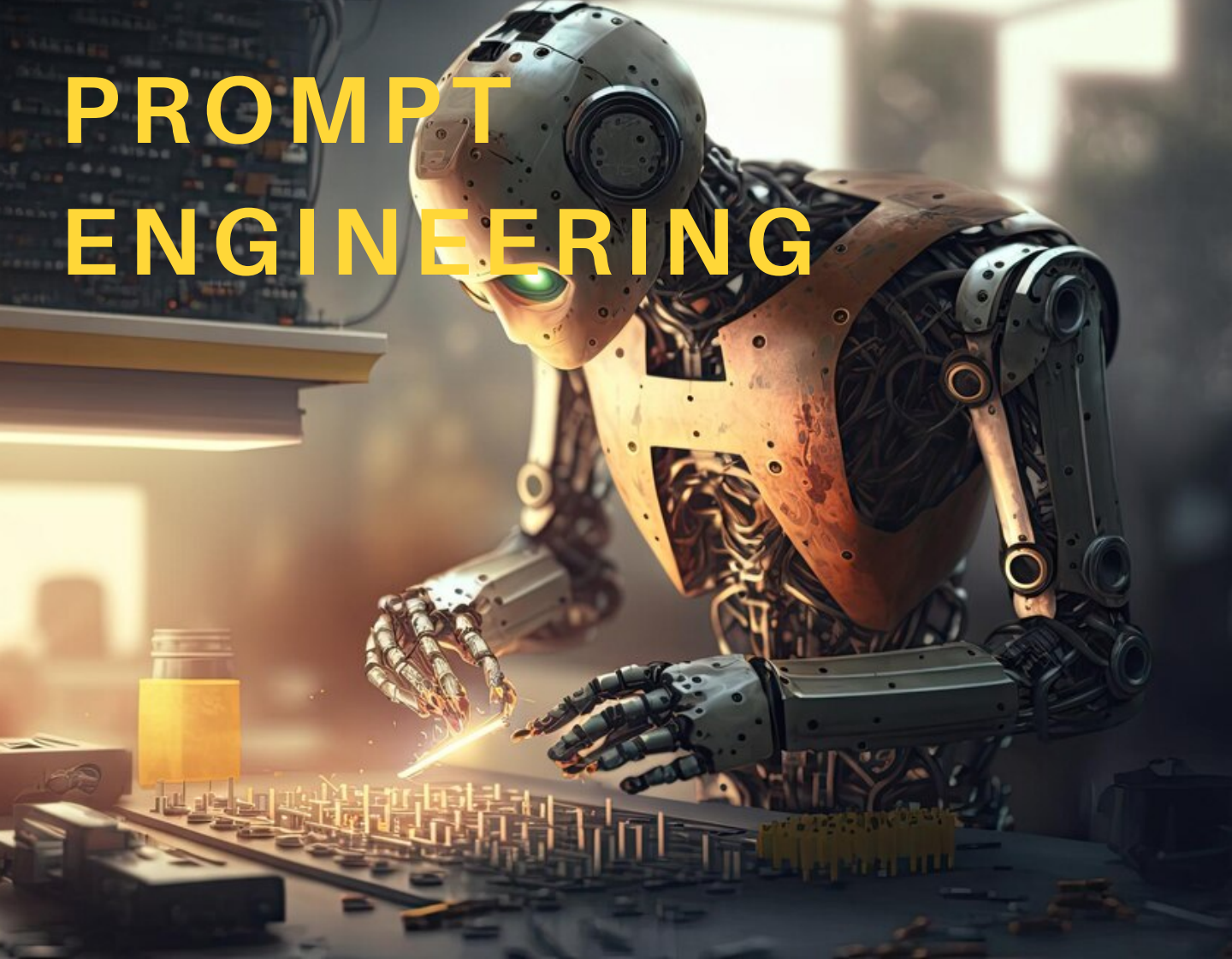AWS THIS IS A CAREER- ORIENTED PROGRAM, DESIGNED TO IMPART A STRONG FOUNDATION

- 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

VIRAJETECH
E - Learning Platform

PROMPT ENGINEERING

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.

VIRAJETECH
E - Learning Platform

1. Introduction to Prompt Engineering

- *Defining Prompt Engineering: Historical Context and Evolution*
- *Importance of Prompts in Modern NLP Applications*
- *Role of Prompt Engineering in Conversational AI*
- *Prominent Researchers and Contributions in Prompt Design*
- *Impactful Case Studies: Success Stories and Lessons Learned*

2. Fundamentals of Natural Language Processing (NLP)

- *Advanced Tokenization Techniques: Subword Tokenization, Byte Pair Encoding*
- *Deep Dive into Named Entity Recognition (NER) and its Applications*
- *Sentiment Analysis and Opinion Mining in NLP*
- *Advanced Language Models Beyond Transformers: Elmo, BERT, T5*
- *Overview of State-of-the-Art Pre-trained Models in NLP*

3. Understanding Prompts in GPT Models

- *Architectural Insights into GPT Models: Layers and Attention Mechanism*
- *Probing the GPT Model: Feature Attribution and Interpretability*
- *Influence of Prompt Structure on Model Output*
- *Multi-turn Conversational Prompts: Strategies and Challenges*
- *Evaluating Prompt Effectiveness: Metrics and Techniques*

4. Types of Prompts and Use Cases

- *Crafting Effective Text Prompts: Strategies for Optimal Input*
- *Task Specification Prompts: Guiding Model Behavior for Specific Outputs*
- *Contextual Prompts: Leveraging Previous Context for Coherent Responses*
- *Multimodal Prompts: Integrating Visual and Textual Information*
- *Use Cases in Industry: Financial, Healthcare, Legal, and More*

5. Advanced Techniques in Prompt Engineering

- *Few-Shot and Zero-Shot Learning: Utilizing Limited Examples*
- *Adversarial Prompting: Stress Testing Model Robustness*
- *Bias Mitigation Strategies in Prompt Design*
- *Transfer Learning with Prompts: Fine-tuning for Specialized Domains*
- *Cutting-edge Research in Advanced Prompt Techniques*

6.Hands-On Projects

- *Crafting Effective Prompts for Text Generation: Practical Exercises*
- *Task-Specific Prompt Development for GPT Models*
- *Adversarial Prompting: Creating Robust Inputs in a Controlled Environment*
- *Bias Mitigation in Prompt Design: Implementing Ethical Considerations*
- *Transfer Learning Experiments: Fine-tuning with Custom Prompts*

7.Ethical Considerations in Prompt Engineering

- *Unpacking Ethical Dilemmas in Language Model Prompting*
- *Ensuring Fairness and Mitigating Bias in Prompt Design*
- *Transparency in Prompt Development: Explainability and Accountability*
- *Case Studies on Ethical Challenges in Prompt Engineering*
- *Open Discussions on Responsible AI Practices*

8.Contextual Understanding and Sequential Prompts

- *Harnessing Context in Prompts: Leveraging Previous Model Outputs*
- *Sequential Prompts: Crafting Coherent Multi-turn Interactions*
- *Practical Examples: Implementing Sequential Prompting in Chatbots*
- *Challenges and Best Practices in Long Conversational Prompts*
- *Evaluating Model Consistency Across Sequential Prompts*

9.Evaluating Prompt Effectiveness

- *Metrics for Assessing Model Responses to Different Prompts*
- *Human Evaluation: Designing and Conducting Effective Studies*
- *Probing Tasks: Analyzing Model Behavior with Specific Prompts*
- *Continuous Monitoring: Adapting Prompts for Continuous Model Improvements*
- *Benchmarking Models: Comparative Studies for Prompt Performance*

10.Future Trends in Prompt Engineering

- *Current Landscape of Prompt Engineering Research*
- *Multimodal Prompting: Integration of Vision and Language*
- *Open Challenges and Opportunities in Prompt Engineering*
- *Student-led Discussions on Emerging Trends and Future Research Directions*

11.Capstone Project

- *Applying Prompt Engineering to a Real-world NLP Challenge*
- *Project Development: From Prompt Design to Model Implementation*
- *Capstone Project Presentation: Demonstrating Key Findings and Outcomes*
- *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

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

ALUMINI 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
TATA CONSULTANCY SERVICES

Mercedes-Benz

HCL

OUR LEARNER'S FEED BACK

HIGHEST LEVEL OF CUSTOMER DELIGHT

r **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

A **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.

S **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.

H **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

8 HRS/WEEK

4 HRS/WEEK

+

+

SELF STUDY

INSTRUCTOR LED LIVE ONLINE LEARNING

PROJECTS & ASSESSMENTS

20 HOURS A WEEK COMMIMENT

PROMPT ENGINEERING   IS RATED AS   **THE TOP CAREER**

HIGHEST PAID –RECESSION PROOF –MILLIONS OF JOBS

TAKE YOUR FIRST STEP TOWARDS PROMPT ENGINEERING CAREER

ENQUIRE NOW

You Tube **Virajetech youtube**

virajetech instagram link

virajetech Gmail

telegram link

virajetech whatsup link

VIRAJETECH
E - Learning Platform