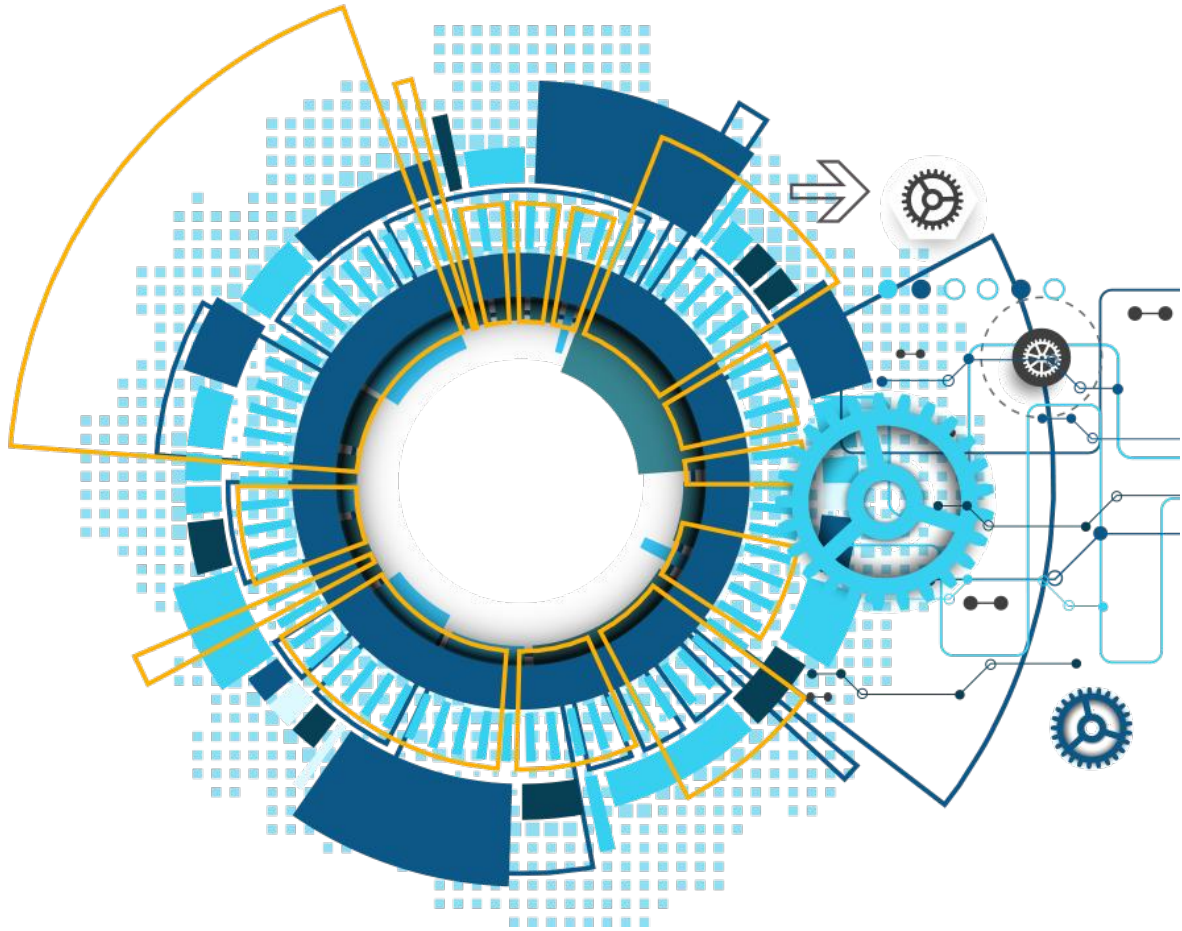


GENERATIVE AI ENGINEERING FOR INNOVATORS



DataWorks

Igniting Data Brilliance with AI & Cloud

www.dataworks.pro

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Course Overview

Brief Introduction

Comprehensive Training in Generative AI Engineering for Innovators.

○ Purpose

This course aims to provide advanced training in Generative AI Engineering, focusing on cutting-edge techniques and technologies to foster innovation in AI applications.

○ Target Audience

AI professionals, machine learning engineers, and experienced developers looking to specialize in generative AI and drive innovation in this field.

○ Goals

Equip participants with expert-level knowledge and skills in generative AI, enabling them to lead AI innovation projects and contribute significantly to AI advancements.

Duration

○ Total Weeks: **Approximately 13 Weeks**

○ Sessions per Week: **5 sessions**

○ Session Duration: **Each Sessions is Approximately 2 hours**

Prerequisites

○ Solid understanding of AI and machine learning concepts.

○ Proficiency in programming languages used in AI (e.g., Python).

○ Familiarity with basic generative AI models and techniques.

Module Structure

Module Structure Overview

1. Advanced Concepts in Generative AI

- Latest Trends and Advancements in Generative AI
- Theoretical Foundations of Generative AI

2. Deep Learning Techniques for Generative AI

- Deep Neural Networks for Generative AI
- Optimization Techniques
- Model Architectures

3. Generative Models: GANs, VAEs, and More

- Generative Adversarial Networks (GANs)
- Variational Autoencoders (VAEs)
- Other Generative Models

4. Natural Language Processing with Generative AI

- Advanced NLP Techniques
- Text Generation
- Language Models

5. Creative Applications of Generative AI

- Generative AI in Art and Design
- Music Generation
- Other Creative Domains

6. Ethical Implications and Responsible Use of Generative AI

- Ethics in AI
- Biases in Generative Models
- Responsible AI Practices

7. Implementing Scalable Generative AI Solutions

- Scaling Generative AI Models
- Cloud Computing for AI
- Performance Optimization

8. Capstone Project in Generative AI

- Comprehensive Generative AI Solution
- Application of Generative AI

Final Modules & Detailed Schedule

○ Generative AI Project Development

○ Deployment and Best Practices



Assessment and Hands-On Projects

○ Assessment Plan

- Regular quizzes to assess theoretical knowledge.
- Active engagement in discussions and activities.

○ Hands-On Labs / Projects

- Projects focusing on cutting-edge applications of generative AI.
- Labs for hands-on experience with advanced generative models.

○ Interactive Activities

- Group discussions on the latest trends in generative AI.
- Workshops on innovative use cases and problem-solving in generative AI.

○ Feedback Mechanism

- Continuous feedback on project progress and quiz performance.
- Interactive Q&A sessions with instructors for deeper understanding.

○ Career Development

- Insights into career opportunities in generative AI engineering.
- Resume building, interview preparation, and guidance on further learning paths.

Conclusion & Enrollment Details

○ Final Project/Presentation

- An innovative project showcasing advanced skills in generative AI.
- Presentation of the project, highlighting technical solutions and creative approaches.

○ Conclusion

- Recap of key skills and knowledge areas covered in the course.
- Recommendations for continued professional development and advancement in generative AI engineering.

○ Enrollment

- How to enroll, deadline, etc.

Certification Generation



CERTIFICATE OF ACHIEVEMENT



L Rajesh Vagara

has successfully completed a certificate program in
GENERATIVE ENGINEERING AI FOR INNOVATORS
with Grade A

Certificate ID: 02-NJ-233

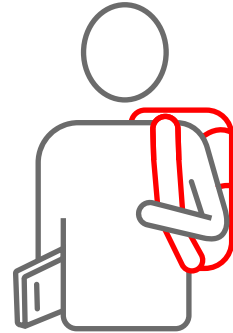
Date of achievement: 06-04-2024


Director

Other Course Offerings

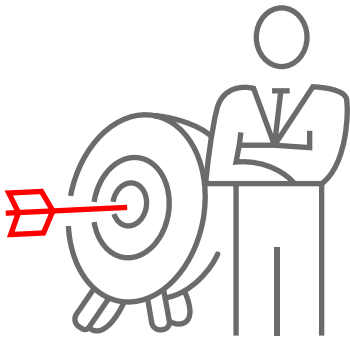
Fundamentals

- IT Essentials
- **Data Engineering** Foundations
- **Cloud Computing** Essentials
- **AI and Machine Learning** Fundamentals
- Conversational **AI** with **ChatGPT**



Job-Oriented

- Comprehensive **Full Stack Development**
- **Cloud Data Engineering & Analytics Program**
- **Full Stack AI Engineering**
- **Cloud Computing** Mastery
- **Devops** and **Testing**



Career Advancer

- Generative **AI Engineering** for Innovators
- Professional **Prompt Engineering**
- Elite **Data Architect Program**
- Leadership program in **AI & Cloud**
- Leadership program in **Cybersecurity**



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