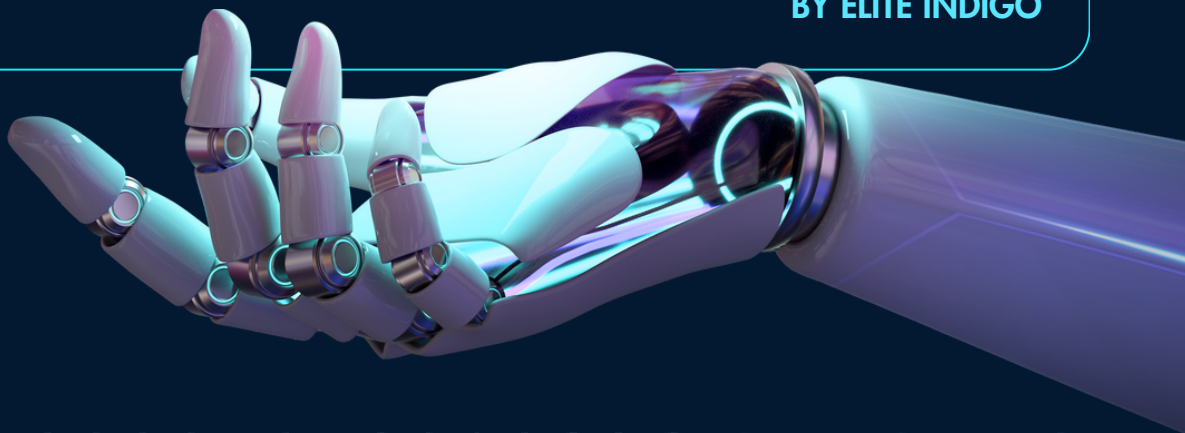


# ARTIFICIAL INTELLIGENCE

# GENERATIVE AI FOR ENGINEERING (2 DAYS)

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**Unleash the Future  
with Our 2-Day Generative AI for Engineering Course  
Today!**

**100% HRDF CLAIMABLE COURSE**



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# AI

## THE FUTURE



## INTRODUCTION

Artificial intelligence (AI) is rapidly transforming the manufacturing industry. AI-powered technologies are being used to automate tasks, make better decisions, and improve quality. As an engineer, you can play a key role in this transformation.

This program will teach you the skills you need to use AI in manufacturing and engineering. You will learn about the latest AI technologies, such as machine learning, deep learning, and natural language processing. You will also learn how to apply AI to real-world manufacturing problems, such as product design & development, process improvement, quality control, and maintenance

## PREREQUISITION

None

## OBJECTIVES

By the end of the course, participants will be able to:

- Understand the basics of artificial intelligence (AI)
- Learn about the latest AI technologies, such as machine learning, deep learning, and natural language processing.
- Learn how to apply AI to real-world engineering and manufacturing problems.
- Develop the skills necessary to use AI in manufacturing
- Walk away with a list of AI 'quick wins' – engineering- and manufacturing-driven business cases they can start right away in their organization

## TRAINING METHODOLOGY

Interactive group discussions, lectures, exercises, case studies and sharing of real-world experiences.

Number of Participants : Max 20 per workshop

Medium of Instruction : English and Bahasa Malaysia(where applicable)

Facility : Each participant to bring a laptop



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## THE FUTURE



## COURSE OUTLINE

A key takeaway from this course is the brainstorming and prioritization of engineering- and manufacturing-related business cases by participants. These “quick wins” business cases can be implemented immediately by the organization to obtain the required benefits.

## DAY 1

### Module 1: Introduction to AI and Engineering

- What is AI?
- History of AI
- Applications of AI in engineering
- Benefits and challenges of using AI in engineering
- Ethical considerations in AI usage

### Module 2: AI Success Stories in Engineering

- Case studies of how AI has been used to improve engineering processes and products
- Examples of how AI can be used to achieve real-world results in engineering

### Module 3: The Data Science Process

- A systematic approach to analyzing, visualizing, and modeling big data
- Different steps in the data science process
- How to use data science to solve engineering problems

### Module 4: Data Cleansing

- The process of cleaning and preparing data for analysis
- Different types of data errors
- Techniques for correcting data errors



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## DAY 2

### Module 5: Exploratory Data Analysis (EDA)

- A technique for exploring data to gain insights and identify patterns.
- Different methods for EDA
- How to use EDA to identify potential problems or opportunities in engineering

### Module 6: Models and Algorithms

- Different models and algorithms that can be used for machine learning and artificial intelligence
- Different types of models, such as supervised learning, unsupervised learning, and reinforcement learning
- Different types of algorithms, such as decision trees, neural networks, and support vector machines
- How to use models and algorithms to solve engineering problems

### Module 7: Key Competencies

- Skills that are needed for developing and deploying AI systems in engineering. Some of the key competencies include data science, machine learning, NLP, computer vision, cloud computing, creativity, and communication

### Module 8: Industry-Specific Business Cases

- How AI can be used to solve business problems in engineering
- Examples of how AI can be used to improve efficiency, productivity, and customer service in engineering

### Module 9: Demos, Mini Projects, and AI-Driven Business Case Brainstorming

- Opportunity to apply the skills learned in the previous modules
- Participation in demos of AI tools
- Work on engineering-driven AI mini projects
- Brainstorm AI-driven business cases for engineering and related department



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## ABOUT ELITE INDIGO

We are dedicated to empowering businesses to achieve their full potential. With a team of seasoned professionals and a wealth of industry experience, we offer tailored consulting services to help organizations overcome challenges and seize opportunities.

## WHY CHOOSE US?

98% Customer Satisfaction based on Google Reviews



4.9 ★★★★★ 600 Google reviews

All our courses are 100% HRDF claimable and no PO needed.

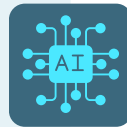
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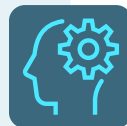
### ARTIFICIAL INTELLIGENCE (AI)

Dive into the cutting-edge world of AI, exploring algorithms, data analysis and more.



### TECHNICAL SKILL

Sharpen your technical prowess from programming, software and more.



### SOFT SKILL

Develop essential interpersonal skills to excel in any professional setting.



### LEADERSHIP SKILL

Unleash your leadership potential with our Leadership Skills course



### TEAMBUILDING

Understand the dynamics of teamwork, communication, and synergy