

AI AND PROBLEM SOLVING

1 DAY

COURSE SUMMARY

This course introduces Artificial Intelligence (AI) and its role in solving real-world problems. Participants will explore key AI concepts, tools, and technologies such as machine learning, data-driven decision-making, and popular AI platforms. The course covers practical aspects such as building and integrating AI models, ethical considerations such as bias and privacy, and the future impact of AI on industries and employment.

COURSE CONTENT

INTRODUCTION TO AI AND PROBLEM-SOLVING

- An introduction to understanding how AI can mimic human intelligence to solve problems
- Explore key concepts such as machine learning, natural language processing and computer vision.
- Understanding how these technologies apply to real-world scenarios

AI TOOLS AND TECHNOLOGIES

- Introduction to popular AI Platforms and tools including TensorFlow, PyTorch and cloud based solutions from Microsoft, Google and Amazon
- Learn about the features and capabilities of these tools and how they can be used to build AI applications

DATA-DRIVEN PROBLEM-SOLVING

- Explore techniques for data collection, cleaning and preparation, ensuring that data used in AI Models is high-quality and relevant
- Methods of transforming raw data into actionable insights and visualizing AI outputs for better decision making

MACHINE LEARNING MODELS IN PROBLEM-SOLVING

- Learn about the three main types of machine learning- supervised, unsupervised and reinforcement learning and their practical applications
- Discussions on how these models can be applied to solve various business problems

IMPLEMENTING AI SOLUTIONS

- Focus on integrating AI into existing workflows and systems with emphasis on aligning AI solutions with business goals, conducting pilot tests and scaling AI implementations
- Learn strategies for managing data privacy, ethical concerns and potential challenges during integration

ETHICAL CONSIDERATIONS IN AI PROBLEM-SOLVING

- Delve into the ethical issues surrounding AI, including bias, fairness and privacy
- Explore how to balance AI-driven decisions with human judgement ensuring that AI solutions are both effective and ethically sound

FUTURE OF AI IN PROBLEM-SOLVING

- Examine emerging AI technologies and their potential to transform industries
- Discuss the impact of AI on the future of work, including how AI will shape industries

PREPARING FOR AN AI-DRIVEN FUTURE

- Learn how to adapt to a rapidly evolving AI landscape
- Explore strategies to stay competitive in an AI Driven world, including upskilling in AI technologies and staying informed about the latest AI developments