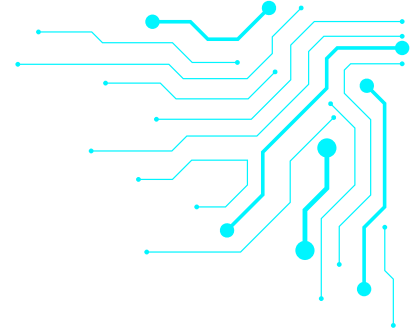# ARTIFICIAL INTELLIGENCE GOVERNANCE

TRAINING COURSE MODULE OVERVIEW

AI GOVERNANCE

PILLARS

1. SAFETY
This pillar prioritises safety in both the development and use of AI systems. It ensures that safety is
prioritised to prevent harm to users or society, irrespective of the system's complexity or purpose.

2. ETHICS
This pillar promotes the ethical development and use of AI systems, ensuring they uphold human rights
and fairness.

3. PRIVACY
Emphasises the protection of personal data, compliance with regulations such as GDPR, and cultivation
of responsible data practices to ensure privacy.
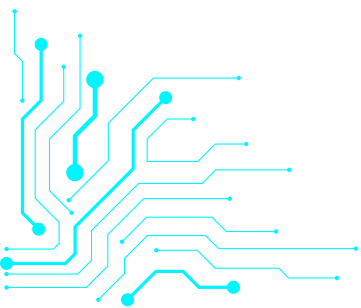
4. TRANSPARENCY
Advocates for clear communication about the operation of AI systems, including data usage, source
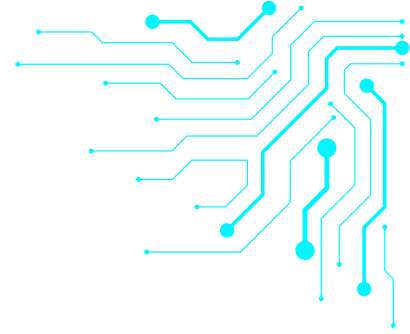material disclosure, and the rationale behind AI-driven decisions.

5. BIAS
This pillar addresses bias in AI systems. It highlights that effective bias assessment and mitigation can
only occur after a thorough understanding and application of the preceding pillars: Safety, Ethics, Privacy,
and Transparency.
Objectives

AI GOVERNANCE

1. Understand the fundamentals of AI

1.1 Introduction to AI: Definition, history, and basic concepts
1.2 Key components of AI: Machine learning, natural language processing, and neural networks
1.3 Examples of AI applications in different sectors

2. Explore the capabilities and limitations of AI

2.1 AI strengths and weaknesses: What AI excels at and where it falls short
2.2 Identifying suitable use cases for AI
2.3 Case studies showcasing successful AI implementations

3. Large Language Models and Prompt Engineering

3.1 Overview of Large Language Models: Understanding their features and capabilities
3.2 Navigating user interfaces of typical Large Language Models
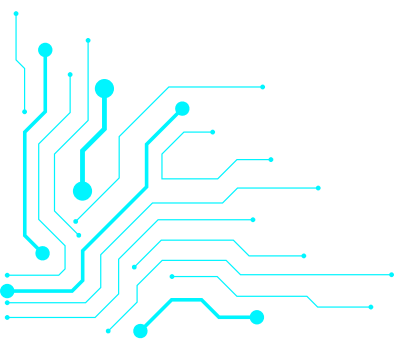3.3 Hands-on exercises to practise using Large Language Models and crafting effective prompts
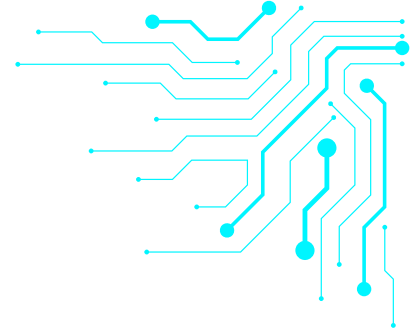
4. Strategic Application of AI in Decision-Making

4.1 Strategies for Integrating AI into Decision-Making Processes
4.2 Understanding the Role of AI in Data-Driven Decision Making
4.3 Approaches to Leveraging AI for Enhanced Decision Support

5. Pillar 1 Safety - Ensuring Safety in AI Practices

5.1 Understanding the Importance of Safety in AI
5.2 Approaches to Safety in Diverse AI Contexts
5.3 Case Studies: Safety Failures and Successes in AI

AI GOVERNANCE

6. Pillar 2 Ethics - Understanding the ethical considerations of AI

6.1 Ethical principles in AI: Fairness, transparency, accountability, and privacy

6.2 Implications of biased data and algorithmic bias

6.3 Strategies for addressing ethical considerations in AI usage

7. Pillar 3 Privacy - Data privacy and security considerations

7.1 Understanding the Importance of Data Privacy and Compliance in AI

7.2 Strategies for Ensuring Data Security in AI Applications

7.3 Approaches to Risk Mitigation and Data Protection in AI Usage

8. Pillar 4 Transparency - Implementing Transparency in AI

8.1 The Role of Transparency in Building Trust in AI

8.2 Strategies for Enhancing Transparency in AI Practices

8.3 Case Studies: Transparency Challenges and Solutions in AI

9. Pillar 5 Bias - Mitigating Bias via inclusivity and fairness in AI usage

9.1 Identifying and mitigating bias in AI systems and data

9.2 Ensuring diverse and representative training data

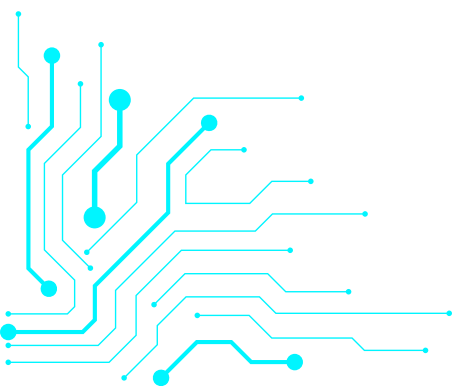9.3 Evaluating AI models for fairness and inclusivity

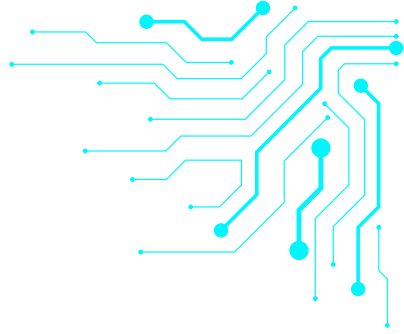## 10. Incorporating AI tools into workflow and processes

10.1 Identifying tasks and processes suitable for AI automation

10.2 Integrating AI tools with existing systems and workflows

10.3 Best practices for maximising efficiency and productivity with AI

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AI GOVERNANCE