

Week 1-2: Understanding Core Concepts

Week 1: Introduction to AI

Day 1-3: Overview of AI

- **Objective:** Understand what AI is, its history, and its applications.
- **Resources:**
 - Microsoft Learn: Introduction to AI
 - Coursera: AI For Everyone by Andrew Ng
- **Activities:**
 - Read the first module on Microsoft Learn.
 - Watch the introductory videos from Coursera.
 - Take notes on key points.
 - Complete any quizzes or exercises.

Day 4-5: AI Concepts and Terminology

- **Objective:** Familiarize yourself with AI-related terminology and concepts.
- **Resources:**
 - Microsoft Learn: AI concepts
- **Activities:**
 - Study AI concepts like neural networks, deep learning, and natural language processing (NLP).
 - Create flashcards for important terms and definitions.
 - Engage in online discussions or forums to reinforce learning.

Day 6-7: Practical Applications of AI

- **Objective:** Understand how AI is applied in different industries.
- **Resources:**
 - Microsoft Learn: AI Business Applications
 - YouTube videos on AI applications in healthcare, finance, and other industries.
- **Activities:**
 - Read about various AI applications.
 - Watch videos on how AI is used in real-world scenarios.
 - Document case studies and examples.

Week 2: Machine Learning (ML) vs. AI and Principles of Responsible AI

Day 1-3: Machine Learning vs. AI

- **Objective:** Differentiate between AI and ML and understand their relationship.

- **Resources:**
 - Microsoft Learn: Introduction to Machine Learning
 - YouTube: Machine Learning vs. AI
- **Activities:**
 - Study the module on Microsoft Learn.
 - Watch YouTube videos explaining the differences.
 - Summarize the differences in your own words.
 - Participate in discussions or forums.

Day 4-5: Core ML Concepts

- **Objective:** Learn about the core concepts of ML such as features, labels, training, and evaluation.
- **Resources:**
 - Microsoft Learn: Core ML Concepts
- **Activities:**
 - Read the provided materials on core ML concepts.
 - Create diagrams to visualize the concepts.
 - Complete exercises or quizzes.

Day 6-7: Principles of Responsible AI

- **Objective:** Understand the ethical considerations and principles of responsible AI.
- **Resources:**
 - Microsoft Learn: Responsible AI
 - Ethics of AI
- **Activities:**
 - Study the module on responsible AI.
 - Watch videos on AI ethics.
 - Reflect on the ethical implications and document your thoughts.
 - Participate in discussions or forums on AI ethics.

Summary of Week 1-2

- **Key Achievements:**
 - Basic understanding of AI and its applications.
 - Familiarity with AI and ML concepts and terminology.
 - Awareness of the ethical considerations in AI.

By the end of these two weeks, you should have a solid foundation in AI concepts, which will prepare you for more in-depth studies in the following weeks. Make sure to review your notes regularly and stay engaged with the materials.