

Elements of AI

Massive Open Online Course

Program and Calendar

<p>Opening session 15/02/2023</p> <p>REGISTRATION ></p>	<p>ORGANIZER'S INTRODUCTIONS Dr. Sana NOUZRI and Dr. Salima LAMSIYAH and Dr. Jihad ZAHIR</p> <ul style="list-style-type: none">▪ Complementary course overview presentation▪ Program and schedule▪ Slack demonstration▪ Q&A
<p>Session 1 22/02/2023</p> <p>REGISTRATION ></p>	<p>CHAPTER 1: WHAT IS AI? Dr. Salima LAMSIYAH</p> <p>➤ Complementary talk on "Our present and future with Intelligent systems" to discuss the following:</p> <ul style="list-style-type: none">▪ What are AI and autonomous systems?▪ Some examples of AI and autonomous systems: self-driving, flying drone, and autonomous ship▪ What are the trends, opportunities, and constraints in AI and autonomous systems?▪ Future of AI and its impact on our lives.▪ Applications of AI in different domains such as healthcare, finance, retail, etc.▪ How to make sure AI is ethically sound?▪ What challenges need to be addressed for wider adoption of AI?▪ What are some of the issues and challenges with AI development?
<p>Session 2 01/03/2023</p> <p>REGISTRATION ></p>	<p>CHAPTER 2: AI PROBLEM SOLVING Prof. Christoph SCHOMMER</p> <p>➤ Complementary talk on "AI & Art application" to discuss the following:</p> <ul style="list-style-type: none">▪ How can AI be used in art?▪ What are some examples of AI in art?▪ How AI can be used to improve problem solving in the arts.▪ What are the benefits and challenges of using AI in the arts?▪ How can AI enhance or change the art experience?▪ What is the future of AI in art?▪ What are some ethical considerations of using AI in art?▪ What are some potential dangers of using AI in art?
<p>Session 3 08/03/2023</p> <p>REGISTRATION ></p>	<p>CHAPTER 3: REAL WORLD AI (PROBABILITY-ODDS) Dr. Salima LAMSIYAH</p> <p>➤ Complementary talk on "Natural language processing" to discuss the following:</p> <ul style="list-style-type: none">▪ What are some applications of natural language processing?▪ A case study of how a smart speaker uses natural language processing.▪ What is a recent development in the field of natural language processing?

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	<ul style="list-style-type: none">▪ What challenges does natural language processing face?▪ What are some research directions in natural language processing?▪ What are some ethical considerations in natural language processing?▪ What is the future of natural language processing?▪ How can I get started in natural language processing?▪ A brief demo of GPT 3 (Generative Pre-trained Transformer 3)?
<p>Session 4 15/03/2023</p> <p>REGISTRATION ></p>	<p>CHAPTER 4: MACHINE LEARNING Dr. Bereket YILMA</p> <p>➤ Complementary talk on “Recommended system application” to discuss the following:</p> <ul style="list-style-type: none">▪ what are the real word scenario examples of recommended system?▪ What is the rationale for using the recommended system?▪ How to apply the proposed system to solve a problem in a real-world scenario.▪ What are the advantages and the limitations/risks associated with implementing the proposed system?▪ What are the open research questions that need to be addressed in future work on the proposed system?▪ What are the ethical considerations that need to be taken into account when implementing the proposed system?
<p>Session 5 22/03/2023</p> <p>REGISTRATION ></p>	<p>CHAPTER 5: NEURAL NETWORKS Dr. Davide LIGA</p> <p>➤ Complementary talk on “Technical explanation of different types of Neural networks (NN) and their examples” to discuss the following:</p> <ul style="list-style-type: none">▪ Machine Learning vs Deep learning▪ How do neural networks work?▪ What are the different types of neural networks?▪ What are the applications of different types of neural networks?▪ What are the benefits of using neural networks?▪ Are there any disadvantages to using neural networks?

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<p>Session 6 29/03/2023</p> <p>REGISTRATION ></p>	<p>CHAPTER 6: AI IMPLICATIONS Dr. Jihad ZAHIR</p> <ul style="list-style-type: none">➤ Complementary talk on “AI reflections” to discuss the following:<ul style="list-style-type: none">▪ How to build AI project from Data to decision▪ Workflow of ML project,▪ AI & society,▪ AI & Ethics,▪ AI & Explainability▪ AI & Bias▪ Future of AI
<p>Final test 19/04/2023</p>	<ul style="list-style-type: none">➤ Multiple choice question test to evaluate the understanding and involvement of participants, by doing the test, every participant should be able to:<ol style="list-style-type: none">1. identify the basic concepts of AI2. select the best AI technique for a given problem3. understand the use and limitations of AI4. Identify some of the major societal implications of AI