PROGRAM

This Summer Program offers introductory courses related to Artificial Intelligence and Sustainability. As of today, companies need to rethink their business models and work towards a better inclusion of CSR and the sustainability goals. The Artificial Intelligence and Sustainability Summer Program will emphasize how artificial intelligence can be used as a tool to create efficient sustainable strategies.

Each module contains a mix of lecture from both academics and professionals in the field.

LEARNING OBJECTIVES

Students will learn basic knowledge in all of the key areas associated with Artificial Intelligence and CSR.

COURSE CONTENT

2 intensive courses taught in English, 40 contact hours

Input from companies

6 ECTS

INTRODUCTION TO ARTIFICIAL INTELLIGENCE (8 CONTACT HOURS) 2

- Description

Introduction to Artificial Intelligence, Kim BINSTED

At the end of this module, students should be able to:

understand the historical, cultural and philosophical underpinnings of AI

describe the wide range of goals and approaches that define the field of AI, and their strengths and weaknesses

understand and describe in detail the sub-fields of AI, including planning, machine learning, robotics, natural language processing and autonomous agents

given a real-world problem, suggest AI approaches that might be appropriate for addressing that problem

read and think critically about current AI research and development

understand and analyze the role of AI in achieving the Sustainable Development Goals

be able to describe the impact of AI on economic, environmental and societal outcomes

understand the main ethical topics underpinning the development of AI systems

be familiar with the main global AI governance frameworks and current policy considerations

be able to critically think about the ethics and governance of AI systems given specific cases

AI & SUSTAINABLE DEVELOPMENT (24 CONTACT HOURS) 4

- Description:

AI & Sustainable Development: Amanda ABRO and Julia GUILLEMOT

AI for Sustainable Development and AI Governance:

> To understand and analyze the role of AI in achieving the Sustainable Development Goals;
> To be able to describe the impact of AI on economic, environmental, societal, and political outcomes;
> To understand the main ethical topics underpinning the development of AI systems;
> To be familiar with the main global AI governance frameworks and current policy considerations;
> To be able to critically think about the ethics and governance of AI systems given specific cases.

Sustainable Development:

> To understand the historical and causal patterns of economic development across various regions and how these processes have affected people and planet;
> To understand the nature and history of the causes and impacts of environmental change on people and the planet;
> To understand the historical causes and patterns of wealth and social inequality;
> To understand the role of institutions, governance bodies, and multilateral agreements;
> To be familiar with current sustainable development careers and opportunities, as well as understand basic foundations of educating the next generation and creating social movements.
**CORPORATE SESSIONS (8 CONTACTS HOURS)**

- **Description (subject to change upon arrival)**

  - Workshops: Sustainable Development Solutions Network, Artificial Intelligence in Business & Management
  - Corporate Talks: TBC
  - Potential cultural visits (e.g.): TBC

Course details: [Introduction to Artificial Intelligence, AI & Sustainable Development](#)