AI FOR INDUSTRY (BY AI SINGAPORE)

Course Title: AI For Industry (by AI Singapore)

Website: (https://www.aisingapore.org/talentdevelopment/ai4i/**)**

Credit Value: 5 credit units

Synopsis

AI for Industry (AI4I) is a fully online, self-paced programme offered by AI Singapore[1] (AISG). AI4I is a programme designed to help students gain proficiency in programming Artificial Intelligence (AI) and data applications. The first part is a 5-hour course on Literacy in AI. This part introduces AI technologies and applications so that students can be savvy consumers of AI products and services. Students will learn how to identify opportunities and potential use cases in their work and daily lives, and build a simple AI model with online tools. The second part is a 140-hour course on Foundation in AI. This part trains technically inclined individuals to understand and use AI appropriately and be able to program basic AI and data applications in Python.

Topics

The AI4I programme provides a fundamental understanding of Artificial Intelligence through twelve topic areas.

1. Literacy in AI
2. Introduction to Python
3. Libraries and Data Manipulation
4. Exploratory Data Analysis
5. Statistical Thinking
6. Supervised Learning
7. Unsupervised Learning
8. Deep Learning
9. Data Science
10. AI in the Real World
11. Other Languages to Learn
12. Other Tools to Learn

Course Materials:

a) The programme is hosted on the AI Makerspace online platform. DataCamp is used as a resource to support the learning required to complete the programme.

b) The programme has two parts providing learners with self-paced online training videos, training slides and practicum:

- Part 1 of the programme is made up of 12 Lessons on Literacy in AI. Learners will learn the basic concepts and terminologies and be able to replicate a simple Machine Learning model using online tools.

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[1] https://www.aisingapore.org/about-us/

- Part 2 of the programme is made up of 35 Lessons on Foundations in AI. Learners will gain Python proficiency and be able to build a basic AI application.

Assessment

1. Students will have to meet all AI4I requirements (including passing all assessments) administered in AI4I –Literacy in AI as well as AI4I – Foundations in AI. Students who successfully complete these two parts will receive the "Literacy in AI" Certification of Completion and "Foundations in AI" Certification of Completion.

2. The programme can be completed within 12 months. A student who has successfully completed Literacy in AI as well as Foundations in AI during his or her SUSS enrolment period can have these considered for credit recognition of a 5cu Elective course under the BSBA or FTBSBA programme.

3. The Exam Authentication method is as follows:

   - Firstly, SUSS students are required to register using their **SUSS email accounts**; personal email accounts will not be accepted.

   - Secondly, AISG will verify identification of the students taking the programme and attempting the assignments/quizzes.