MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE
Tap onto the new wave in technology advancement
Overview

The M.Sc. in Artificial Intelligence (MSAI) programme is created for students who wish to develop, design and implement AI systems and at the same time cultivate a deep understanding of AI for project management and policy making. The programme emphasizes on AI theory, techniques and tools to solve real world problems with multiple types of constraints, e.g. problems with limited training data and big data problems. Equipped with both theoretical and activity-based learning, this will allow graduates to upgrade their competencies and skills. The core courses focus on the foundations of AI knowledge, such as machine learning and deep learning, while a wide range of elective courses in different domains, such as image, video, text and IoT data are available to deepen understanding and knowledge in this specialisation.

Leading edge and up-to-date curriculum.

World-class faculty from NTU School of Computer Science and Engineering (SCSE) and other disciplines

Opportunities to work with AI faculty members in SCSE for research or industrial related projects.

Hands-on experience from course projects.

Programme Structure

- The MSAI programme is an intensive 1-year full-time (or 2-year part-time) programme by coursework. Students will be awarded the Master of Science in Artificial Intelligence after completion of study.

- The programme consists of a total of 30 Academic Units (AUs), with 12 AUs stemming from core courses and 18 AUs from master project and four groups of elective courses, covering general AI techniques and techniques especially for image, video, IOT and time series data.

- Each course is 3 AUs with 39 teaching hours, including lectures, tutorials, example classes and labs over 13 weeks. The master project of AI is a one year project with 6 AUs. The master project is not a compulsory component.

- The bridging course, Python Programming, has no AU. This is for students who have graduated from bachelor programmes with limited programming training and working adults who do not usually write codes. All students are able to take the bridging course in their first semester. It is not a compulsory course.
Compulsory Courses

- Introduction to AI and AI Ethics
- Machine Learning: Methodologies and Applications
- Deep Learning and Applications
- Mathematics for AI

Elective Courses

AI Techniques
- Neuro Evolution and Fuzzy Intelligence
- Multi-Agent System

AI for IOT Data
- Urban Computing
- Time Series Analysis

AI for Text
- Deep Neural Networks for Natural Language Processing
- Text Data Management and Processing

AI for Image and Video Processing
- Computer Vision
- Advanced Computer Vision

Project
- Master Project of AI

Admission Requirements

A) A good honours degree in computer science, computer engineering or a related discipline with solid mathematical training

or

B) A good bachelor's degree in computer science, computer engineering or a related discipline with solid mathematical training and 2 years relevant industry experience and

A good TOEFL score (IBT = 92 or more, PBT = 600 or more, CBT = 250 or more) or IELTS score (6.5 or more) for graduates of universities in which English is not the medium of instruction.

Timeline of Jan Intake

- JUN-SEP: APPLICATION
- OCT-NOV: OFFER AND ACCEPTANCE
- JAN-APR: THE FIRST SEMESTER
- AUG-NOV: THE SECOND SEMESTER

Programme Fee & Scholarships

- Singapore Citizens $39,000
- Singapore Permanent Residents $46,500
- International Students $58,000
- NTU alumni enjoy 10% discount

- NTU-SCSE Partial Scholarships to selected students
- OCBC AI Scholarship

*Related disciplines include but not limited to bachelor's programmes offered by College of Engineering*
Contact Us

School of Computer Science and Engineering
Nanyang Technological University
Block N4 #02c-120
Nanyang Avenue
Singapore 639798

SCSE-MSAI@ntu.edu.sg