

MASTER OF ARTIFICIAL INTELLIGENCE

Australia needs up to 161,000 new AI specialists by 2030*. Globally, this figure *skyrockets*. What does this mean for you? A myriad of opportunities across manufacturing, healthcare and other sectors – and a career that can shape the future.

Tomorrow is driven by AI

AI grows more prevalent and powerful every day.

Combating world hunger. Fighting poverty. Addressing climate change. Tackling criminal activity on the dark web. Let this master's degree empower you to make a real impact in our world.

Taught by the discipline's greatest, you'll dive into topics spanning deep learning, machine learning, human-computer interaction, natural language processing and modern optimisation techniques. You'll also learn about ethical issues and best practices.

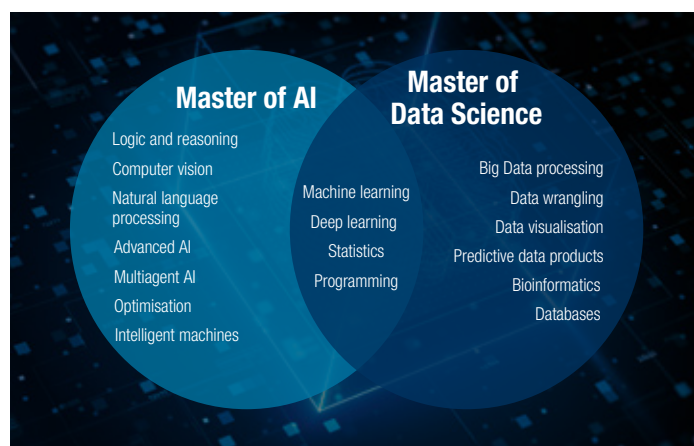
Practical experience to hone your edge

Focused on industry needs, this master's degree gives you the chance to apply your specialist expertise to real-world challenges through advanced practice units.

Complete in-depth research under the guidance of an internationally-recognised expert (as a potential pathway to a PhD) or engage in an Industry Experience Studio Project. Either way, this hands-on training puts your knowledge into practice – so you can grow your prospects with confidence.

*Artificial Intelligence, CSIRO, 2019

Data Science and AI – the difference



Career outlook

	PATHWAYS	EXAMPLE TASKS
ARTIFICIAL INTELLIGENCE	AI engineer Machine learning engineer AI consultant Robotics engineer	Creating autonomous vehicles Building chatbots Programming drones
DATA SCIENCE	Data analyst Data scientist Data engineer Cloud administrator Business analyst	Forecasting sales Predicting electricity usage Managing web platforms



We achieved the highest possible rating for Artificial Intelligence, formally recognising us as 'well above world standard' in the discipline. This means we're in a prime position to drive innovation and empower the next generation of changemakers.

DEAN, PROFESSOR ANN NICHOLSON
FACULTY OF INFORMATION TECHNOLOGY



TOP 100

Monash consistently ranks in the world's top 100 for **Computer Science and Information Systems**.

QS World University Rankings by Subject 2022



30+ YEARS

Monash Faculty of IT has been the benchmark of work-integrated learning for more than 30 years.



WELL ABOVE WORLD STANDARD

Monash is ranked 'well above world standard' in **Artificial Intelligence and Image Processing**.

State of Australian University Research 2018-19: ERA National Report



GROUP OF EIGHT

Monash is the **only university among the prestigious Group of Eight** to offer a comprehensive Master of AI.

COURSE DETAILS

Location	Clayton
Course code	C6007
Duration	2 years full-time/4 years part-time (entry level 1) 1.5 years full-time/3 years part-time (entry level 2)
Enrolment	February and July each year
Alternative exits	<ul style="list-style-type: none">■ Graduate Diploma of Artificial Intelligence■ Graduate Certificate of Artificial Intelligence

COURSE STRUCTURE

Part A: Foundation units (24 points)

- FIT9131: Programming foundations in Java
- FIT9136: Algorithms and programming foundations in Python
- FIT9137: Introduction to computer architecture and networks
- MAT9004: Mathematical foundations for data science

Part B: Core master's studies (48 points)

Three compulsory units (18 points):

- FIT5047: Fundamentals of artificial intelligence
- FIT5125: IT research methods
- FIT5197: Statistical data modelling

Four additional units (24 points) chosen from:

- FIT5201: Machine Learning
- FIT5202: Data processing for big data
- FIT5215: Deep learning
- FIT5216: Modelling discrete optimisation problems
- FIT5217: Natural language processing
- FIT5218: Human-centric AI
- FIT5219: Advanced learning and cognitive systems
- FIT5220: Solving discrete optimisation problems
- FIT5221: Intelligent image and video analysis
- FIT5222: Planning and automated reasoning
- FIT5226: Multi agent systems and collective behaviour
- FIT5230: Malicious AI

One elective level five unit (6 points)

Part C: Advanced practice (24 points)

Industry experience

- FIT5120 Industry experience studio project
- FIT5122 Professional practice
- One elective selected from any FIT level five units

Or

Minor thesis research (four units)

ENTRY REQUIREMENTS

Eligibility (in equivalent Australian qualification terms)

Entry level 1: Part A and B

An Australian bachelor's degree, not necessarily in IT, with at least a 65% average, or equivalent qualification approved by the faculty.

Entry level 2: Part A only

An Australian bachelor's degree in a cognate discipline relating to IT, or an engineering or science degree with a substantial IT component including programming and mathematics, with at least a 60% average (for 2023), or equivalent qualification approved by the faculty.

HOW TO APPLY

Domestic students

If you're an Australian citizen or permanent resident, or a New Zealand citizen, apply at monash.edu/admissions/apply/online.

International students

If you're an international student, apply at monash.edu/admissions/apply/online or via a Monash agent.

FURTHER INFORMATION

Domestic students

1800 MONASH (666 274)
future@monash.edu

International students

In Australia: 1800 MONASH (666 274)
Outside Australia: +61 3 9903 4788
study@monash.edu
WeChat: MonashUniAus
Youku: Monash 蒙纳士大学