

Bachelor of Software Engineering

ARTIFICIAL INTELLIGENCE

Study a Bachelor of Software Engineering in Artificial Intelligence and you'll become a highly sought-after developer with a deep understanding of algorithms and techniques used in solving problems of natural language processing, computer vision and more. You'll explore different models for pattern recognition, use them in cloud environments, and master the fundamentals of machine learning, before embarking on a rewarding career in the future-facing field of creative tech.

WHY CHOOSE A DEGREE IN ARTIFICIAL INTELLIGENCE?

Industry feedback indicates a significant shortage of employees with both a strong grasp on the technicalities of software engineering and an ability to think critically and creatively. To address that gap, MDS has partnered with IBM to design a course that will give you not only the future-proof technical acumen, but the core soft skills required for a successful career in AI, putting you a step ahead of the competition when you enter the workforce.





Artificial Intelligence

Bachelor of Software Engineering
NZQF: Level 7 (360 credits), 1 EFTS a year
Duration: Three academic years, full time

Master both a range of technical subject areas, such as Computer Vision, Natural Language Processing, Speech Recognition, and Machine Learning & Robotics, as well as the in-demand soft skills of ideation, design thinking, project and time management and interpersonal communication.

Your first year will cover the foundational skills of software engineering and AI, including an introduction to computer graphics and practical mathematical skills.

FIRST YEAR COMPONENTS

- **Introduction to Software Engineering for Games:** Begin with an introduction to the C++ programming language and the opportunity to construct simple games.
- **Maths 1:** This component begins with basic mathematics before progressing to the core mathematical skills required for solving games problems.
- **Concept in AI:** Introduction to Artificial intelligence through knowledge representation, problem solving techniques and architectures used to build intelligent systems.

Please visit mediadesignschool.com for up-to-date and comprehensive course information, entry criteria, intake dates and fees.

CAREER OPPORTUNITIES

- Software Engineer
- Software Developer
- Machine Learning Engineer
- AI Developer
- Business Intelligence Developer
- R&D Engineer
- Data Scientist

INDUSTRY INSIGHTS

It has been predicted that AI will be the most significant change driver over the next two decades, with 2.3 million jobs expected to appear as early as 2020*. Software Engineers remain on NZ's long term skill shortage list and the ever-growing demand for graduates means salaries remain highly competitive, with earnings averaging between \$72-100k per year.**

*gartner.com/newsroom/id/3837763

** careers.govt.nz

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