NUS National University of Singapore | Faculty of Science

# MASTER OF SCIENCE IN
# DATA SCIENCE AND MACHINE LEARNING

## OVERVIEW

The Department of Mathematics has been ranked 1st of Asian universities and among the top worldwide according to the QS World University Rankings by Subject. The Department offers diverse and vibrant graduate programmes in mathematical sciences. Faculty members' research cover all major areas of contemporary mathematics.

The Master of Science in Data Science and Machine Learning (DSML) is an interdisciplinary graduate degree programme aimed at developing future leaders in data science and artificial intelligence. The curriculum encompasses fundamental disciplines such as computer science, mathematics, and statistics, along with specialised areas like machine learning and artificial intelligence.

## FACULTY

Faculty members of three renowned departments of NUS (Mathematics, Statistics and Data Science, Computer Science) will teach in the programme, providing a strong foundation in data science and machine learning. Data scientists and AI experts from various organisations will also be invited to teach industry-related topics, offering insights into real-world applications.

## CAREER OPPORTUNITIES

This programme equips students with cutting-edge machine learning and data science skills, preparing them for diverse opportunities in today's fast-evolving industries. Graduates will be well-prepared for careers such as data scientist, machine learning engineer, AI specialist, data analyst, business intelligence developer, etc. Additionally, the programme provides a strong foundation for those interested in pursuing advanced studies in AI, machine learning, and data science.

## PROGRAMME STRUCTURE AND CANDIDATURE

The programme has one intake per year, with candidates joining in August. It is offered as a full-time programme and a part-time programme. For full-time students, the minimum and maximum periods of candidature are 1 year and 2 years respectively. For part-time students, the minimum and maximum periods of candidature are 2 years and 4 years. To graduate from the programme, each student is required to read and pass five core courses and five elective courses.

For more information about the programme, please refer to: **https://www.math.nus.edu.sg/ms-dsml-v1/**

## ADMISSION REQUIREMENTS

- A Bachelor's (Honours) degree or a 4-year Bachelor's degree or its equivalent in a quantitative science (e.g. Mathematics, Statistics and Physics), Engineering or Computing Science
- A candidate whose medium of undergraduate instruction is not English is required to submit TOEFL (with the minimum score of 85 for the internet-based test) or IELTS (with the minimum score of 6.0)

## TO APPLY

- Tuition fees per programme: Singapore Dollar 58,860 (inclusive of 9% GST)
- Online via **https://gradapp.nus.edu.sg/apply**
- Early admission application period (August 2026 Intake): 16 May 2025 to 15 July 2025
- Regular admission application period (August 2026 Intake): 1 October 2025 to 31 January 2026

## TESTIMONIALS

"The knowledge and skills I've gained in my MSc DSML programme, especially around machine learning and big data processing, have enhanced my understanding of the concepts that drive these fields. These courses provided in-depth insights that prepared me for more advanced projects in the workplace. I now know where to go for specialised knowledge, whether it's about graph neural networks or other advanced topics."

*- Ashwin Kumaar Raviraj, Current Student*

"The MSc DSML programme significantly strengthened my foundational knowledge and provided me with advanced grasp of machine learning principles. Beyond core coursework in machine learning theory and statistics, the curriculum offered specialised electives such as natural language processing and distributed systems. Particularly valuable was the industry internship component, where faculty-guided practical experience complemented academic learning. This combination of theoretical depth and hands-on application directly equipped me with the expertise to secure my dream job as a machine learning engineer specialising in recommendation systems."

*- Ding Jieyi, 2025 Alum*


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Scan the **QR code** for detailed information about the Programme