Master of Science in Data Science & Machine Learning (MDSML)

Department of Mathematics
National University of Singapore
Prospective students

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Introduction

› The M.Sc. in Data Science and Machine Learning programme is offered jointly by the Department of Mathematics and the Department of Statistics and Applied Probability, with the Department of Computer Science in the School of Computing. This one-year full-time programme will help to meet the growing demands for big-data professionals by transforming graduates with Bachelor degrees in quantitative science (e.g. mathematics, applied mathematics, statistics and physics) into practitioners.

› The curriculum incorporates inter-disciplinary learning from computer science, mathematics and statistics. It also combines data analytics with machine learning. In addition to learning knowledge in these disciplines, students will also have opportunities to explore the integration of machine learning and data analysis in sectors such as financial industry, healthcare and government.
Admission Requirement

› Graduates with Bachelor (Hons) degrees in quantitative sciences (e.g. mathematics, applied mathematics, statistics and physics) or Engineering who wish to enhance their professional skills and qualifications in data science and machine learning at the postgraduate level.

› A candidate whose medium of undergraduate instruction is not English must pass TOEFL (with the minimum score 580 for the paper-based test or 85 for the internet-based test) or IELTS (with the minimum score 6.0).
Course Fee & Fee payment

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<th>Academic Year</th>
<th>Fee (SGD) (before GST)</th>
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<td>2020/2021</td>
<td>45,000.00</td>
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› Singapore Citizens (SC)/Singapore Permanent Residents (SPR) may be eligible to receive course fee subsidies for SSG-funded modular courses before they matriculate into the MSc programme.

› No scholarship support is available.

› For other fee component, please refer here.

› For application fee payment, please refer here.
Candidature Period

| Full Time  | 1–2 yrs |

Candidature for this coursework programme range from one to two years for full time studies. Currently, only full time option is available.
MSc in Data Science and Machine Learning
-A Programme with Multiple Specializations

Core Modules
20 MCs

Elective Modules
20 MCs

40 Modular Credits (MCs)

Five Core Modules

- Introduction to Big Data for Industry
- Optimisation for Large-Scale Data-Driven Inference
- Cloud Computing
- DSML Industry Consulting and Applications Project

Five Elective Modules in 6 Graduate Certificate (GC) Tracks and 4 Clusters to Choose From
(Read five elective modules from at least two tracks/cluster to make up 20 MCs)

- GC in Deep Learning for Data Scientists
- GC in Data Mining for Industry
- GC in Big Data for industry
- GC in Data Science in Computer Vision
- GC in Data Science in Quantitative Finance
- GC in Data Science in Internet of Things
- Cluster in Data Science in Healthcare
- Cluster in Mathematics
- Cluster in Statistics
- Cluster in Computing
Application Procedure

› Apply Online
› Applicants are advised to read the detailed procedure here

Note:
› Applications and/or payment received after the closing dates will not be processed for that intake. Incomplete applications will also not be processed.

Closing date:
› 15 March, for consideration of admission in the August term of the current year.
Contact Us

Department of Mathematics
National University of Singapore
Level 4, Block S17
10 Lower Kent Ridge Road
Singapore 119076

Tel: +65 6516 2737

Queries

› Interested applicants are welcome to drop us an email at askmathpg@nus.edu.sg or call us at +65 6516 2762