**MACHINE LEARNING (MPML)**

Graduate Degree Program  
College: Computer, Mathematical, and Natural Sciences

**ABSTRACT**

The Master of Professional Studies (MPS) in Machine Learning offers students the opportunity to engage in cutting edge technical course work in machine learning and develop their problem solving skills in the art and science of processing and extracting information from data with special emphasis on large amounts of data (Big Data). During their coursework, students will build solid foundations in mathematics, statistics and computer programming, and explore advanced topics in machine learning such as deep learning, optimization, big data analysis and signal/image understanding. The program consists of 30-credit course work and is a non-thesis MPS program.

**CONTACT**

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7998 Regents Drive  
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Email: scienceacademy@umd.edu  
Phone: 301.405.9101

Website: https://scienceacademy.umd.edu/machinelearning/mps (https://scienceacademy.umd.edu/machinelearning/mps/)

**Admissions**

**GENERAL REQUIREMENTS**

- Statement of Purpose (https://advancedengineering.umd.edu/application-process/)
- Transcript(s)
- TOEFL/IELTS/PTE (international graduate students (https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/))

**PROGRAM-SPECIFIC REQUIREMENTS**

- CV/Resume
- Description of Research/Work Experience
- Prior coursework establishing quantitative ability (i.e. calculus, linear algebra, basic statistics etc.).
- Proficiency in programming languages, demonstrated either through prior programming coursework or substantial software development experience.

**Type of Applicant**  | Fall Deadline | Spring Deadline |
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**Domestic Applicants**  |  |  |
US Citizens and Permanent Residents | 30 June | N/A |
**International Applicants**  |  |  |
F (student) or J (exchange visitor) visas; A,E,G,H,I and L visas and immigrants | 11 Mar | N/A |

**Other Deadlines:** Please visit the our admissions blog at: https://gradschool.umd.edu/computermathematicalnatural-sciences/mpml (https://gradschool.umd.edu/computermathematicalnatural-sciences/mpml/)

**Requirements**

- Machine Learning, Master of Professional Studies (M.P.S.) (https://academiccatalog.umd.edu/graduate/programs/machine-learning-mpml/machine-learning-mps/)