Master of Science in Data Science and Analytics

The Master of Science in Data Science and Analytics is an interdisciplinary one-year degree program, comprising six courses that prepare students to become data scientists. Faculty members involved in the program possess the diverse skill sets needed for this emerging discipline. The program provides advanced training in data science and analytics principles and methodologies, and highlights their applications in solving problems in various industry, government and research domains. Technical skills such as mathematics, statistics, operations research, and programming are core competencies that are in the greatest demand in the marketplace. The Master's program is designed to provide these competencies.

Data science is an interdisciplinary field that combines expertise from several domains. The program is supported by four faculties to reflect the interdisciplinary nature of the field. Students will learn how data science and analytics can help improve decisions throughout an organization's value chain, understand how recommendations lead to tangible actions through prescriptive analytics techniques, gain a good understanding of methods used in building such data-driven models, and acquire hands-on experience with analytics tools that are widely used in practice. The program will engage industry partners (such as IBM, St. Michael's Hospital, The Hospital for Sick Children, Microsoft Research, The Globe and Mail, and the Toronto Stock Exchange) to access extensive data in health care, software engineering, social media, services and finance.

Approved by Ryerson University Senate   October 6, 2015
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