

# Data Science

**How** do we manage thousands of terabytes of data?

**What** can we learn when we analyze fast streaming data?

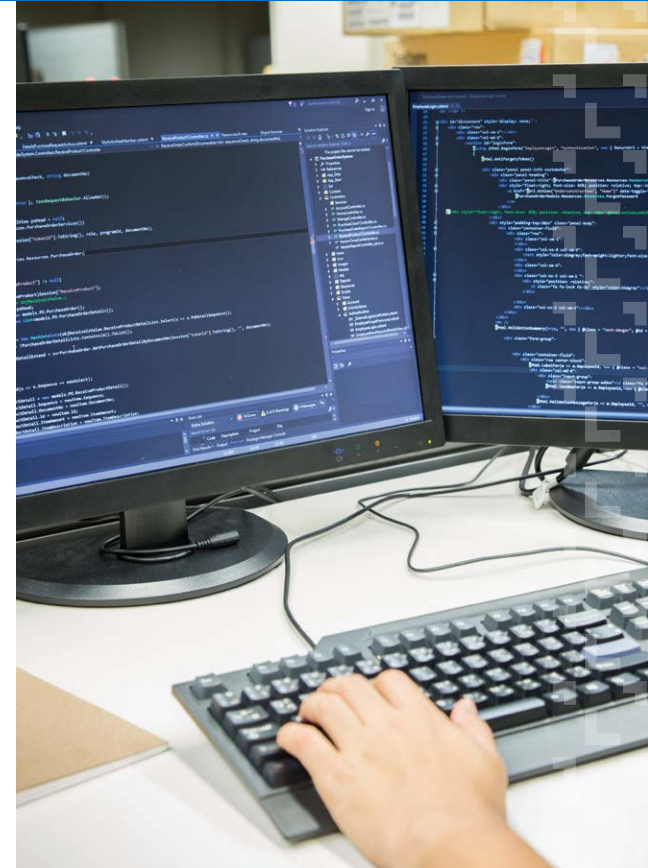
**What** is the value in big data?

**How** do we analyze different kinds of data, from text to video?

The amount of data generated by—and available to—companies, governments and individuals is exploding. There's an urgent need for individuals who can grapple with massive amounts of data and extract key information.

In this specialization you'll develop the knowledge, skills and tools for success in this desirable job market. You'll also develop critical problem-solving, analytical and computational skills that will enable you to turn vast quantities of data into insight.

Gain working knowledge over a range of algorithms, methods and systems for performing data analysis on real-life datasets.



## What will I study?

- Big Data Analytics
- Computer Vision
- Database Systems and Concepts
- Machine Learning, Theory and Application
- Scientific Data Analysis
- Web Application Development

## What can I do with my degree?

Data scientists are highly sought after in a variety of industries including health care, finance and business consultancy. They are also in high demand in both government and private sectors, including:

- Engineering, automotive and mining companies
- Financial institutions, such as banks and hedge funds
- Medical research labs
- Robotics and aeronautical companies
- Software houses

An undergraduate degree in Computer Science—with a specialization in Data Science—allows you to pursue graduate studies. This includes our Master of Science program in Computer Science.

---

## Want more information?

Faculty of Science  
2000 Simcoe Street North  
Oshawa, Ontario L1G 0C5  
Canada

905.721.3190  
[connect@ontariotechu.ca](mailto:connect@ontariotechu.ca)  
[ontariotechu.ca/programs](https://ontariotechu.ca/programs)

---



If you require an alternative format of this publication, contact [marketing@ontariotechu.ca](mailto:marketing@ontariotechu.ca).

© University of Ontario Institute of Technology 2021. ONTARIO TECH UNIVERSITY and Design, and Tech with a Conscience are trademarks of the University of Ontario Institute of Technology. D5462