

Machine Learning Foundations

Course description



This 3-day workshop offers a beginner-friendly hands-on introduction to machine learning and its application to bioinformatics. This workshop is not intended for machine learning experts; instead, it targets biologists or other life scientists who want to understand what machine learning is, what it can do and how it can be used for a variety of bioinformatic applications.

What will I learn?

Students will gain experience in:

- **Applications and Limitations** of Machine Learning and Deep Learning;
- **Decision Trees and Random Forests**, and how they can be used in bioinformatic applications;
- **Artificial Neural Networks (ANNs)** and how they can be used in bioinformatic applications;
- **Fundamentals of clustering** as an unsupervised machine learning method;
- **Machine learning operations principles**; and
- **Applying** these machine learning techniques in Python for biomarker discovery, secondary structure prediction and more.

Workshop Details

-  October 14-16, 2026
-  Halifax, NS
-  In-person event
-  Awards available
-  \$864+tax before Aug 15
-  \$1064+tax until Oct 2



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