

BIOF 093: Machine Learning with MATLAB

MATLAB is a high-level language that enables you to quickly perform computation and visualization through easy-to-use programming constructs.

This two-day workshop focuses on data analytics and machine learning techniques in MATLAB® using functionality within Statistics and Machine Learning Toolbox™ and Deep Learning Toolbox™. The workshop demonstrates the use of unsupervised learning to discover features in large data sets and supervised learning to build predictive models. Examples and exercises highlight techniques for visualization and evaluation of results. Topics include:

- Organizing and preprocessing data
- Clustering data
- Creating classification and regression models
- Interpreting and evaluating models
- Simplifying data sets
- Using ensembles to improve model performance

Class Type: Workshop

Program: Bioinformatics and Data Science