Review: Introduction to Machine Learning (w1)

Key Take-Aways

At this point, you should be able to answer all of the following questions.

- What are three specific examples of applied machine learning?
- What is machine learning? How is ML different from, but related to, Artificial Intelligence? How is ML different from, but related to, statistics?
- What are the two main subcategories of machine learning?
- What kind of machine learning subcategory contains regression and classification?
- What kind of machine learning subcategory contains clustering, anomaly detection, association analysis and dimensionality reduction?
- What is classification? How is classification similar to, and different from, regression?
- What is clustering?
- What are the four kinds of ML models we will learn the most about in this course?
- What are some of the steps of a machine learning process?
- What does it mean to train a model, and how is that different from validating a model or deploying a model?
- What is a machine learning model?
- What are some of the most popular tools used by machine learning practitioners, and what do they enable us to do?
- How do you create, edit, run, and share a Jupyter Notebook?

If you are unsure of any of these answers, please review the course materials and post questions on the course discussion forum. Please ask as many questions as you can!

Check the **Explorations** and **Task List** in the **Week 1 Overview (https://canvas.oregonstate.edu/courses/2025514/modules/items/25512047)** to review our learning materials and to verify that you have completed all the learning activities for this module.

(https://canvas.oregonstate.edu/courses/2025514/modules)