



“UniTs” - University of Trieste

Faculty of Data Science and Artificial Intelligence
Department of mathematics informatics and geosciences

Introduction to Machine Learning

Lecturer:
Prof. Eric Medvet

Author:
Christian Faccio

December 22, 2024

This document is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike](https://creativecommons.org/licenses/by-nc-sa/4.0/) (CC BY-NC-SA) license. You may share and adapt this material, provided you give appropriate credit, do not use it for commercial purposes, and distribute your contributions under the same license.

Abstract

As a student of the “Data Science and Artificial Intelligence” master’s degree at the University of Trieste, I have created these notes to study the course “Introduction to Machine Learning” held by Prof. Eric Medvet. The course aims to provide an introduction to the field of machine learning, covering the fundamental concepts in theoretical terms. The topics are the followig:

- Supervised learning techniques
- Unsupervised learning techniques
- Dimensionality reduction (not covered in the lectures)
- Introduction to NLP

While these notes were primarily created for my personal study, they may serve as a valuable resource for fellow students and professionals interested in this field.

Contents