

DCS 630 - Machine Learning I

3 Credit Hours

Basic machine learning techniques such as classification, regression, dimension reduction, clustering will be studied. Theories and techniques of supervised learning will be covered in detail. Topics include classification techniques, random forests, neural networks, and tree-based models will be taught. Students will also learn to find groups and other structures in unlabeled, possibly high dimensional data sets. Dimension reduction techniques for visualization and data analysis will be covered.

Prerequisites

[DCS 620](#)