

CST8502

MACHINE LEARNING

Week 1
Introduction

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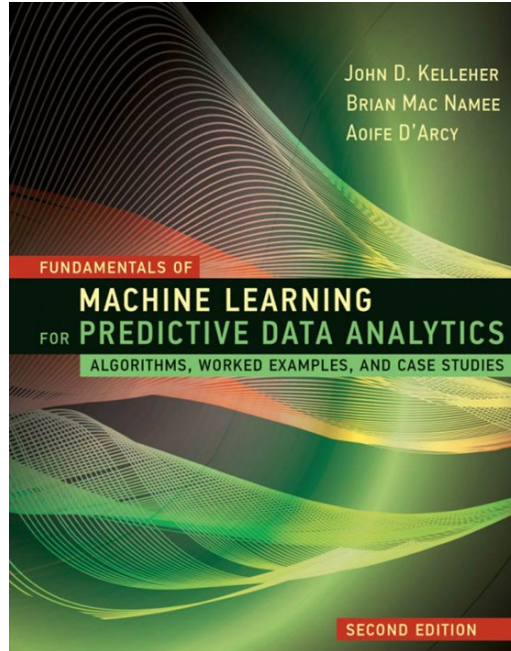
Course Topics

- Introduction to Machine Learning
- Data Understanding and Preparation
- Modeling and evaluation
 - Classification, regression, clustering, outlier detection
- Classifier fusion
- Discussion on trending topics in industry



Required Textbook

Kelleher, J. D., D'Arcy, A., & Namee, M. B. (2020). *Fundamentals of machine learning for Predictive Data Analytics: Algorithms, worked examples, and case studies, Second Edition*. Cambridge, MA: The MIT Press. ISBN: 978-0-262-04469-1



Work

- Lectures: 2 hours
- Weekly Labs – 2 hours
- Assignments
- Hybrid
- Final Project (Mandatory)
- Midterm
- Final exam



Grades

- Theory (40%)
 - Midterm (15%)
 - Final Exam (25%)
- Practical (60%)
 - Labs (20%, 5 labs)
 - Assignments (20%, 2 assignments)
 - Mandatory Final Project (with Presentation AND report) (20%)
- Final Project – Group Work – Group of 3 members



Programming

- First half (weeks 1-7): Weka & RapidMiner
- Second half (weeks 9-14): Python



Success Tip

- Attend all lectures and labs!



Weekly Schedule

- Brightspace – Course Information

