Course Description

Do you want to learn how data science leverage business success? (Of course you do!)

Our course will expose you to theoretical and practical knowledge on how data have the power to add intelligent insights that support business goals for a variety of domains (e.g., medical, financial, advertising).
We will cover selected problems including Optimization, Classification, Clustering, and Prediction. For each problem, we will learn about algorithms that solve it and measures that evaluate a solution. To make the learning contextual, we will apply methods learned for business cases and real industrial data.

Course Goals

Getting familiar with a variety of data science algorithms and business applications.

Grading

4 Homework assignments - 60% (individual)

Each assignment is mandatory

Graded in the range of 0-10

Worth 15% of the final grade

Final Project - 40% (teams of 4)

Learning Outcomes

Students learn to:

• Describe what data science is and the skill sets needed for a data scientist.

• Hands-on experience in applying data science algorithms for solving business problems.

Lecturer Office Hours

By appointment

Tutor Office Hours

TBA
Teaching Assistant

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Reading List

- bakım לחקורبرزים, נילי ב. א. 2010
- [FosterProvost] Data Science for Business. O'Reilly Media, Inc. 2013,
  Access to e-book available from library collections
- [JoelGrus] Data Science from Scratch
  Access to e-book available from library collections
- [Tanetal] Introduction To Data Mining
- [Gouldetal] Introductory Management Science