**Class Schedule**

**Fall 2024**

**TECH-GB-2336 – Section 10**

**Thursday 6-9PM KMC 3-70**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Date | Topic | Readings/Prep | Deliverables (Due Fri@midnight unless otherwise noted) |
| 1 | 9/19 | Intro to Data Science | **DSB** Chapter 1-2  **Use Case:** Churn | HW #0 (ungraded) |
| 2 | 9/26 | Exploratory Data Analysis | **Shmueli** 2.4, 3.1-3.4  **ISL:** 2.3 **Article:** Target | Project Group Requests In |
| 3 | 10/3 | Classification/Decision Trees | **DSB** Chapter 3 | * First Project meeting * HW #1 Due |
| 4 | 10/10 | Overfitting and Evaluation | **DSB** Ch5 121-129, 136-143 (2nd ed.) | Initial Project Proposal Due |
| 5 | 10/17 | Overfitting and Evaluation 2 | **DSB** Chapter 7-8 | Quiz 1 |
| 6 | 10/24 | Regression, Regularization and Other Models | **DSB** Chapter 4  **Shmueli** 9.7  **Article**: ProPublica | HW #2 Due |
| 7 | 10/31 🎃 | Variable Selection | **Shmueli** 6.4 | Project Update Due |
| 8 | 11/7 | Text Based Models | **DSB** Chapter 9,10  **Shmueli** Chapter 20  **Article**: PNAS |  |
| 9 | 11/14 | Similarities / kNN / Clustering | **DSB:** Chapter 6  **Shmueli**: Chapter 7  **Article**: Zillow | HW #3 Due |
| 10 | 11/21 | Ensembles / Recommender Systems | **Shmueli**  Ch. 9.8, 13  **ISL Ch.** 8.2, 12.3 | Quiz 2 |
| X | 11/28 🦃 | NO CLASS - THANKSGIVING |  |  |
| 11 | 12/5 | Guest Lecture : Gus Mustakas – AT&T  Deep Learning / AI + Review | **Shmueli** Chapter 11 |  |
| 12 | 12/12 | Class Presentations |  |  |
|  | 12/16 | Quiz 3 – Take-At-Home (30 min timed) | | |
|  | 12/18 | Project Reports Due | | |