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Course Info

Week 1

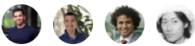
AI For Medical Treatment

Week 1

Discuss this week's modules here.
158 threads · Last post 13 hours ago

Go to forum

Treatment Effect Estimation



In this week, you will learn: How to analyze data from a randomized control trial, interpreting multivariate models, evaluating treatment effect models, and interpreting ML models for treatment effect estimation.

Learning Objectives

- Analyze data from a randomized control trial
- Interpreting Multivariate Models
- Evaluating Treatment Effect Models
- Interpreting ML models for Treatment Effect Estimation

Less

Intro

▶ Video: Intro to Course 3 with Andrew and Pranav 2 min

Resume

▶ Video: About Course 3 1 min

📖 Reading: Connect with your mentors and fellow learners on Slack 10 min

Randomized Control Trials

▶ Video: Absolute risk reduction 2 min

▶ Video: Randomized control trials 4 min

📄 Lab: Lecture notebook: Pandas operations on Medical Data 1h

Average Treatment Effect

▶ Video: Causal inference 4 min

▶ Video: Average treatment effect 4 min

▶ Video: Conditional average treatment effect 4 min

▶ Video: T-Learner 3 min

▶ Video: S-Learner 4 min

📄 Lab: Lecture notebook: Model Training/Tuning Basics with Sklearn 1h

Individualized Treatment Effect

▶ Video: Evaluate individualized treatment effect 3 min

▶ **Video:** C-for-benefit 2 min

▶ **Video:** C-for-benefit calculation 5 min

📖 **Lab:** Lecture notebook: Logistic Regression Model Interpretation 1h

Quiz: Measuring Treatment Effects

📋 **Practice Quiz:** Quiz: Measuring Treatment Effects 8 questions

Assignment: Treatment Effect Estimation

📖 **Reading:** About the automatic grader 10 min

📖 **Reading:** How to refresh your workspace 10 min

🔗 **Programming Assignment:** Estimating Treatment Effect Using Machine Learning 3h Due Nov 9, 1:59 AM CST

