#### Group no. 6

Our research question: "which specific aspects of the school climate are most strongly connected to students' math grades? And do these connections change between different socioeconomic groups?"

#### INTRODUCTION TO DATA SCIENCE | 382.1.2601 | JUNE 2025

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## Previous researches

predictors of academic success



- Safety
- Student-teacher relationships
- Sense of belonging



- Exposure to violence
- Bullying
- Fear

# Challenge and Contribution

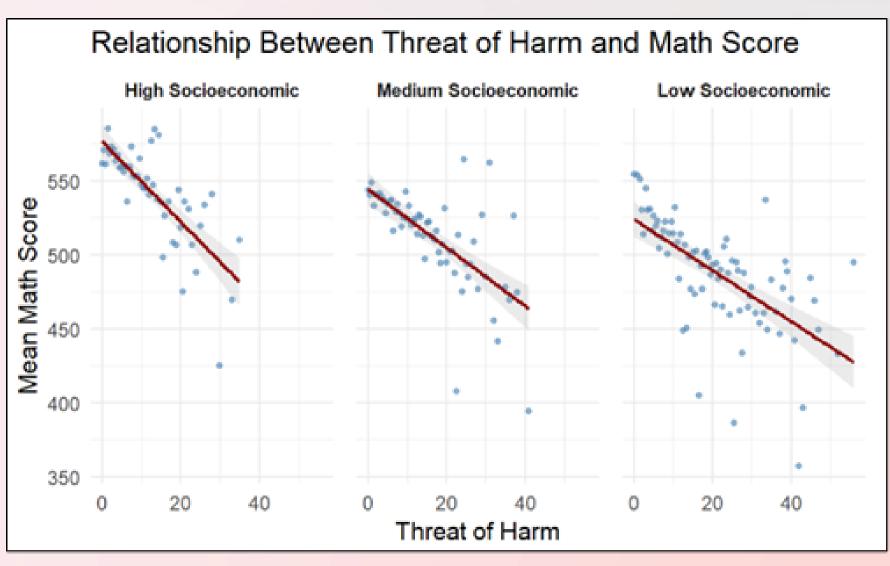
 intercorrelation and correlation between school climates and socioeconomic level

 Find the specific variables in Israel, and also to deal with the correlation to socioeconomic level

### Data Overview and EDA

(1) Meitzav" test scores table (2) Socioeconomic background table (3) Schools' climate survey results table





# Page 4/5 Model and Feature Importance

- Feature grouping
- Linear regression
- Bootstrapping
- Cross validation

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## Results and Evaluation

