

# Data Analytics Using Python

*Final Project*

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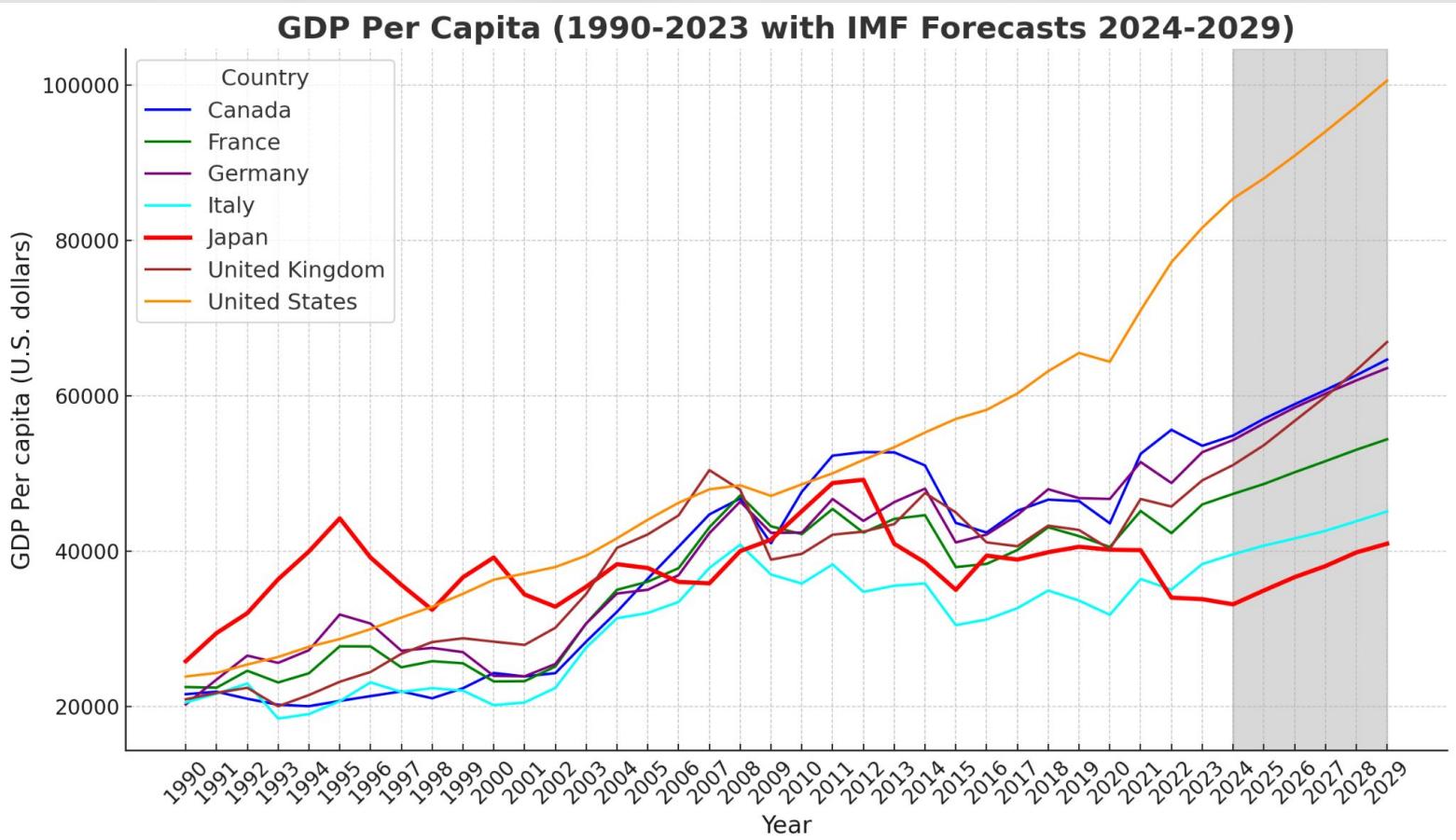
John Wu



01

# The Problem

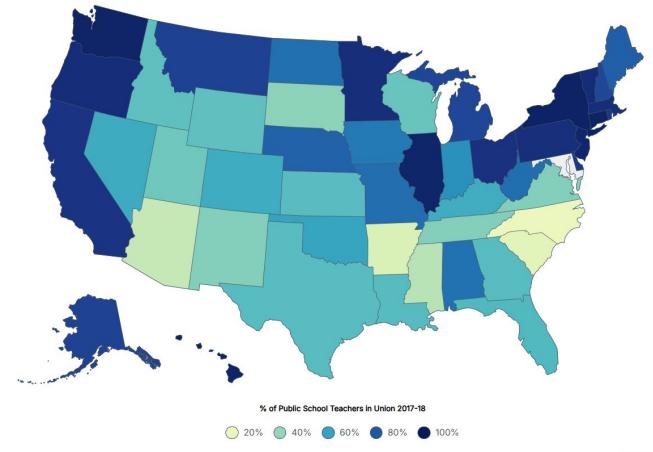




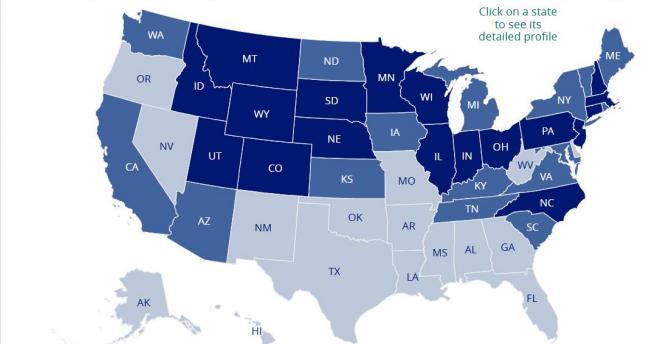
02

# Investigation





Mathematics, grade 8  
Difference in percentage at or above Proficient between jurisdictions, for all students [TOTAL] = All students, 2024

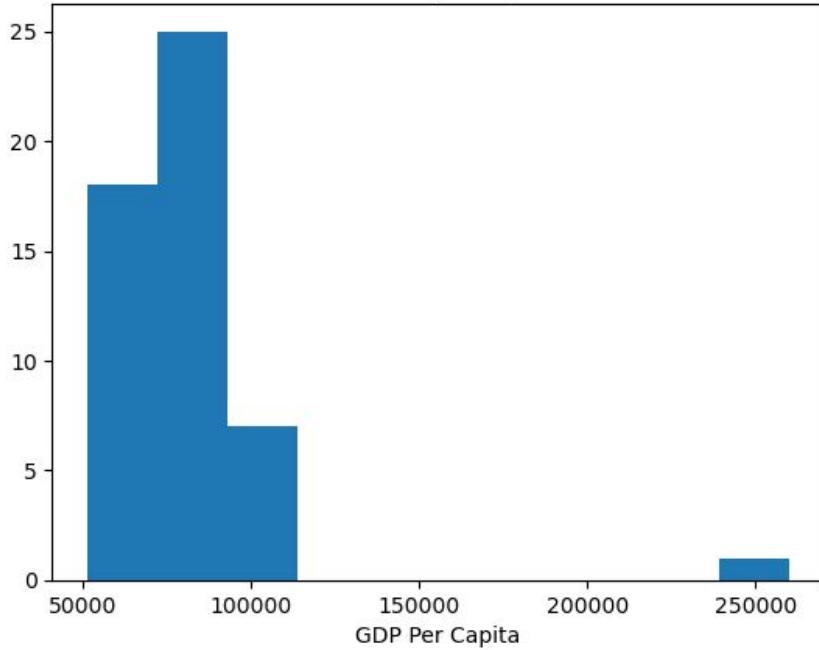


03

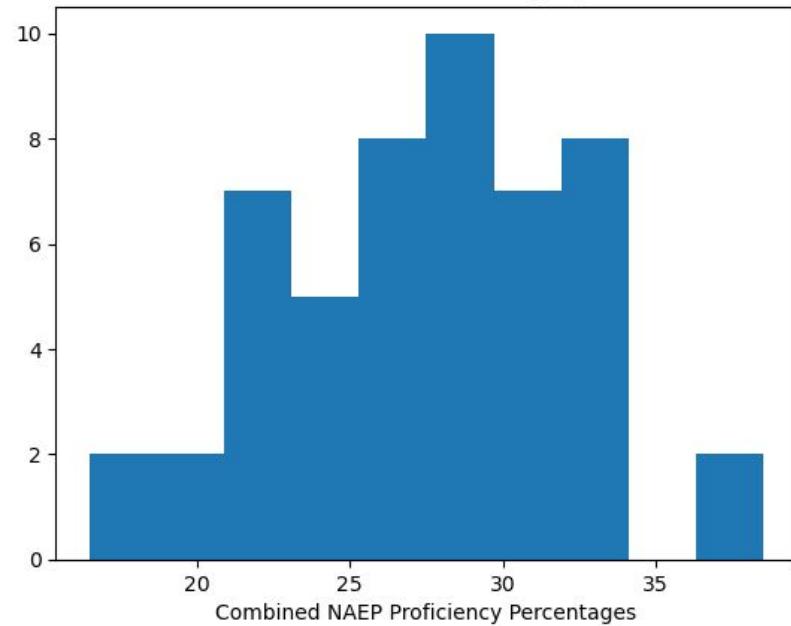
# Exploration

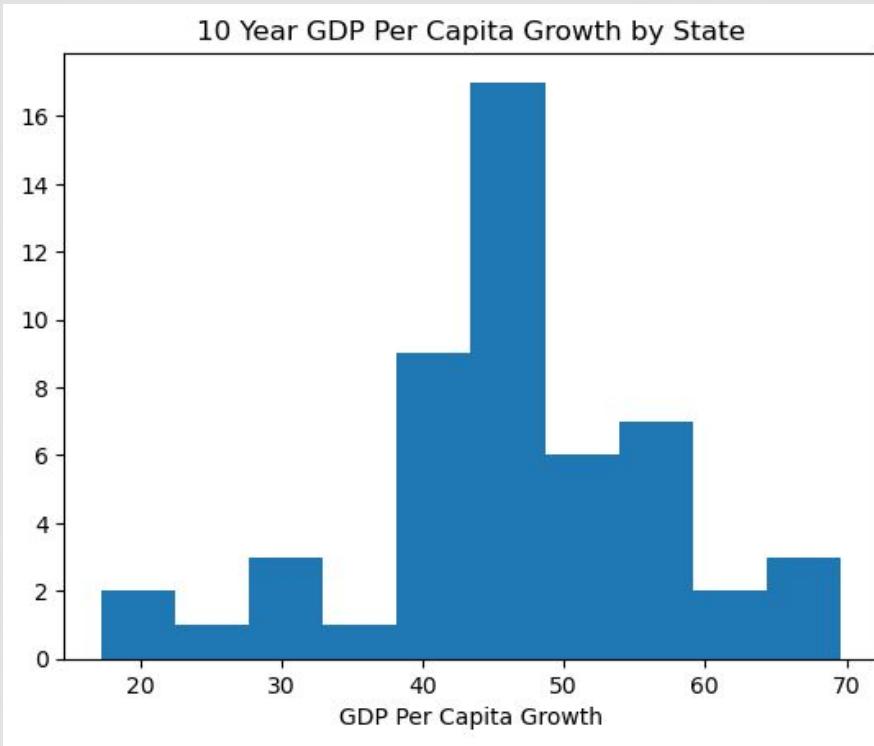


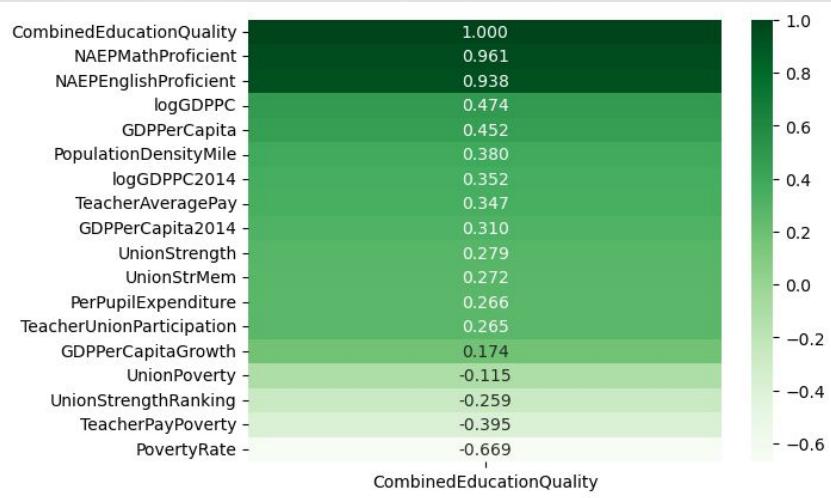
GDP Per Capita by State

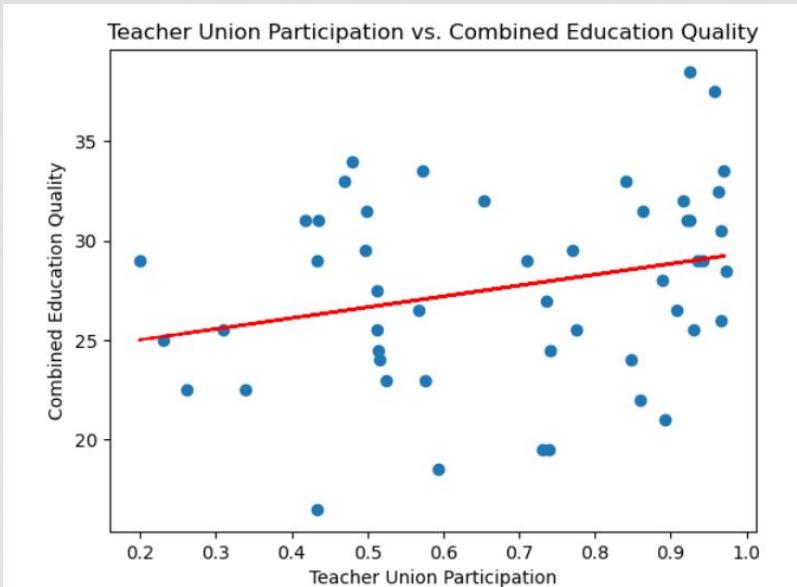
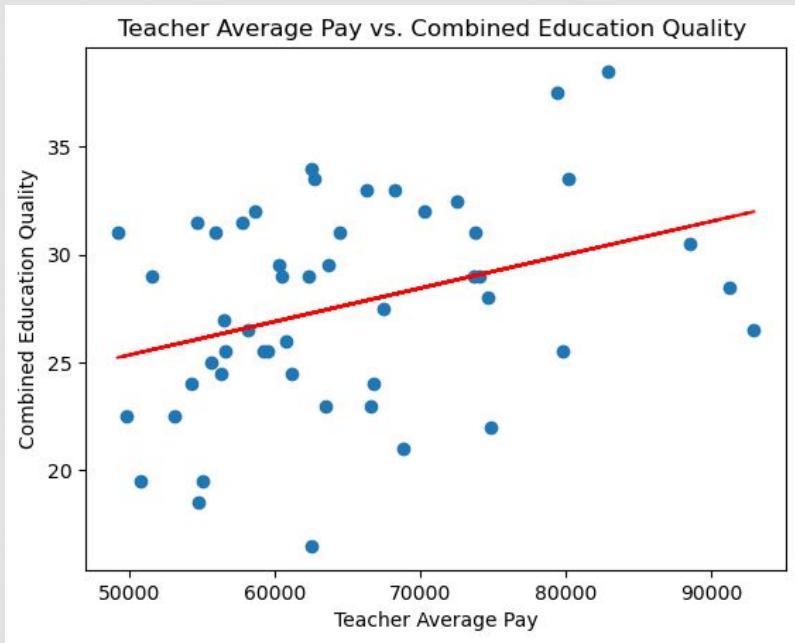


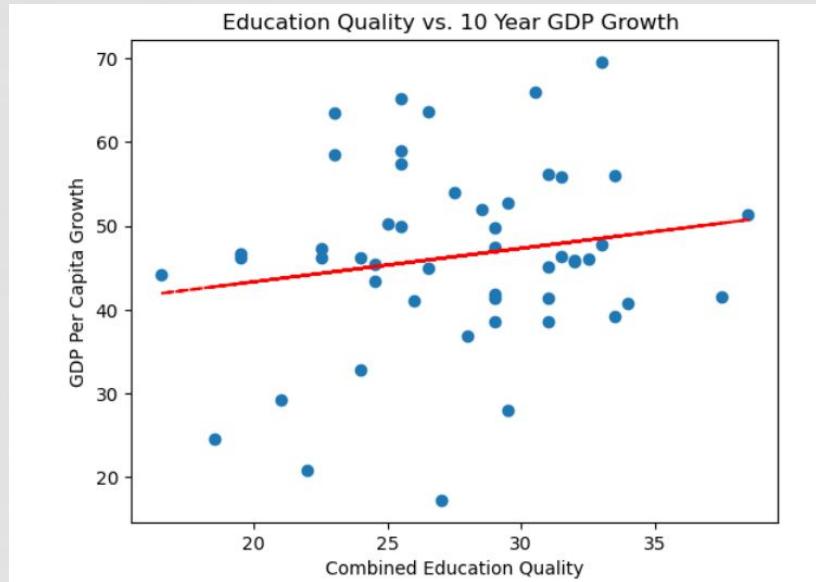
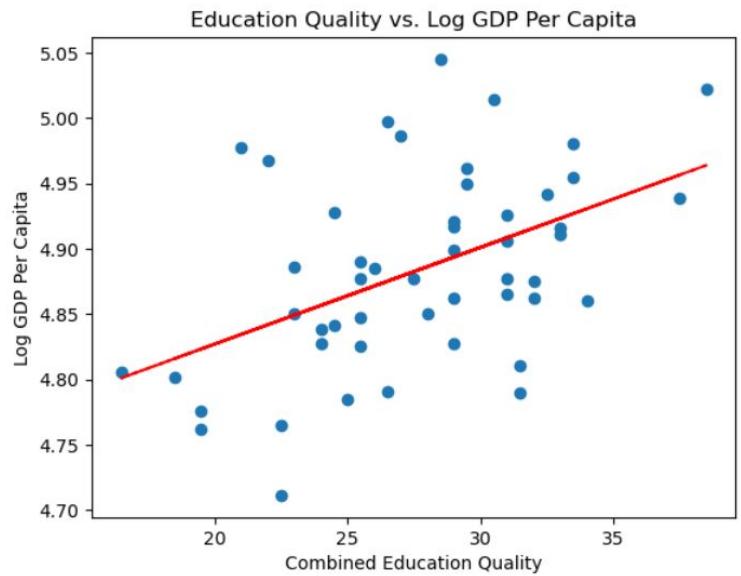
Combined Education Quality by State

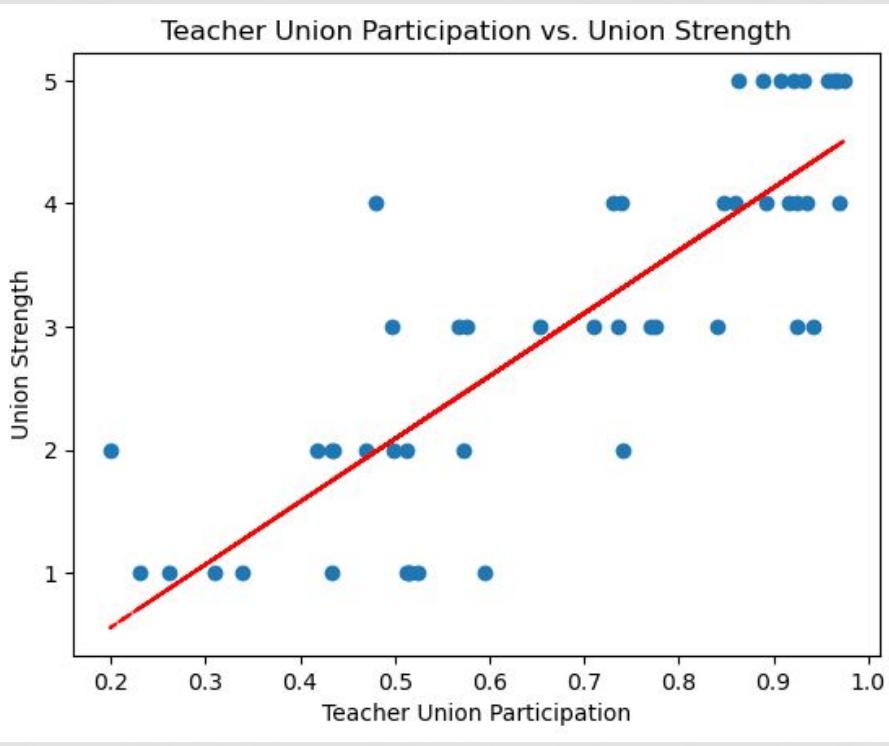








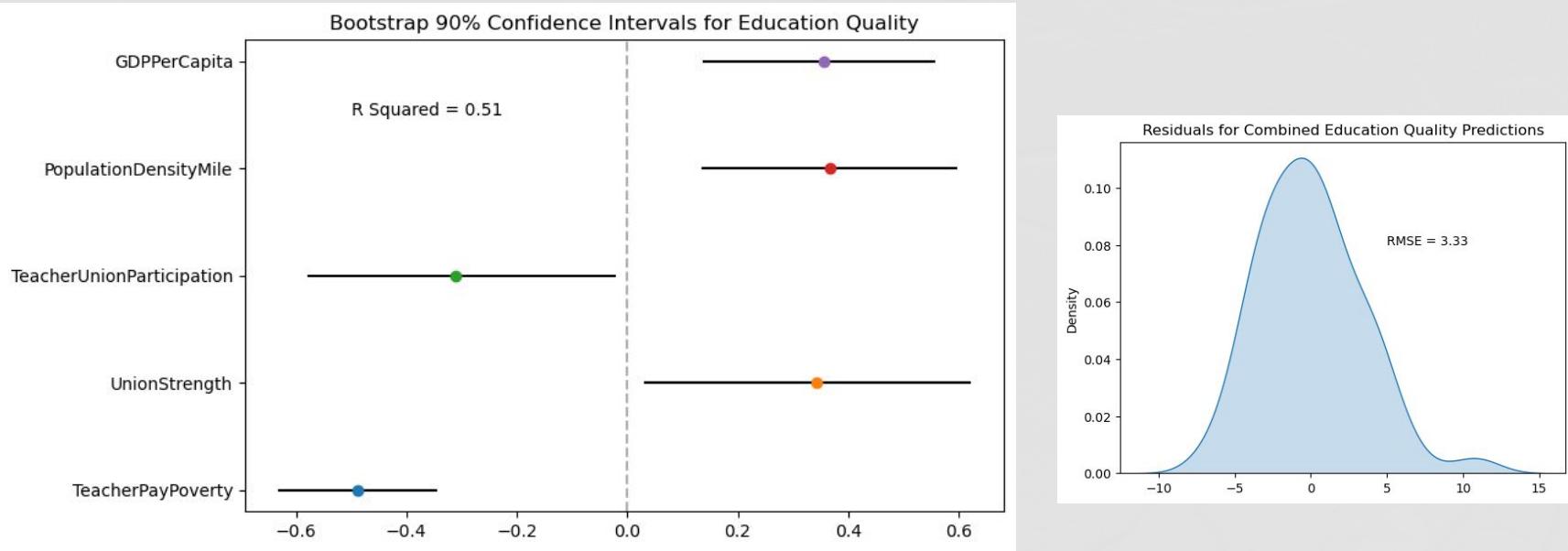


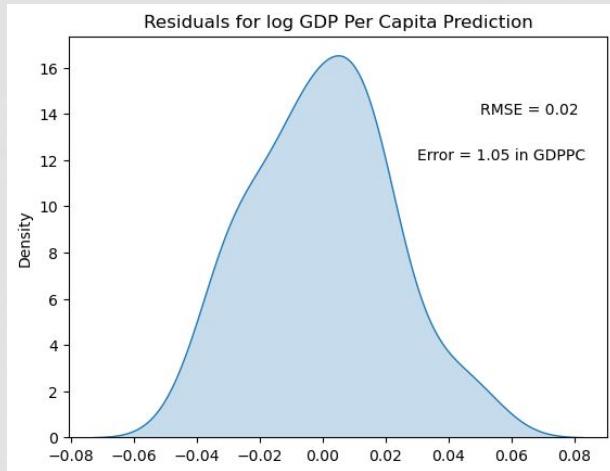
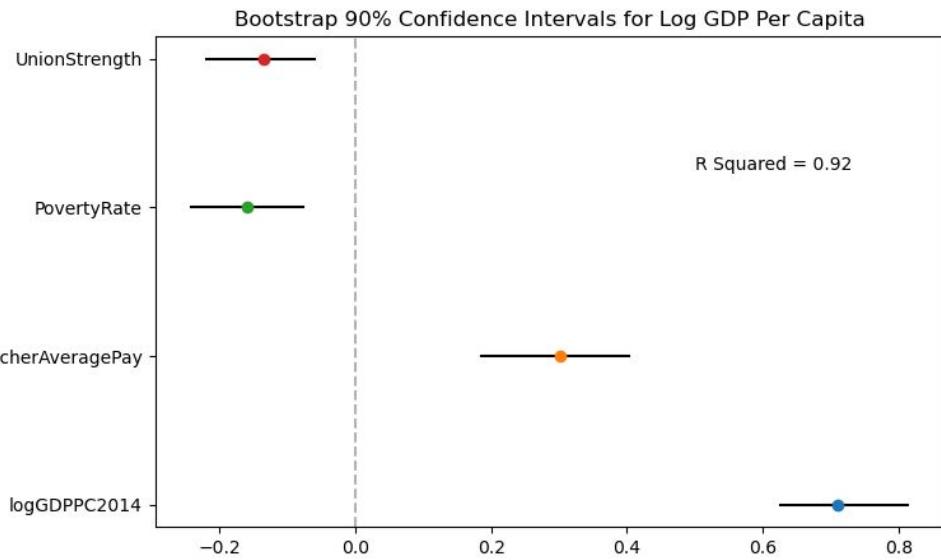


04

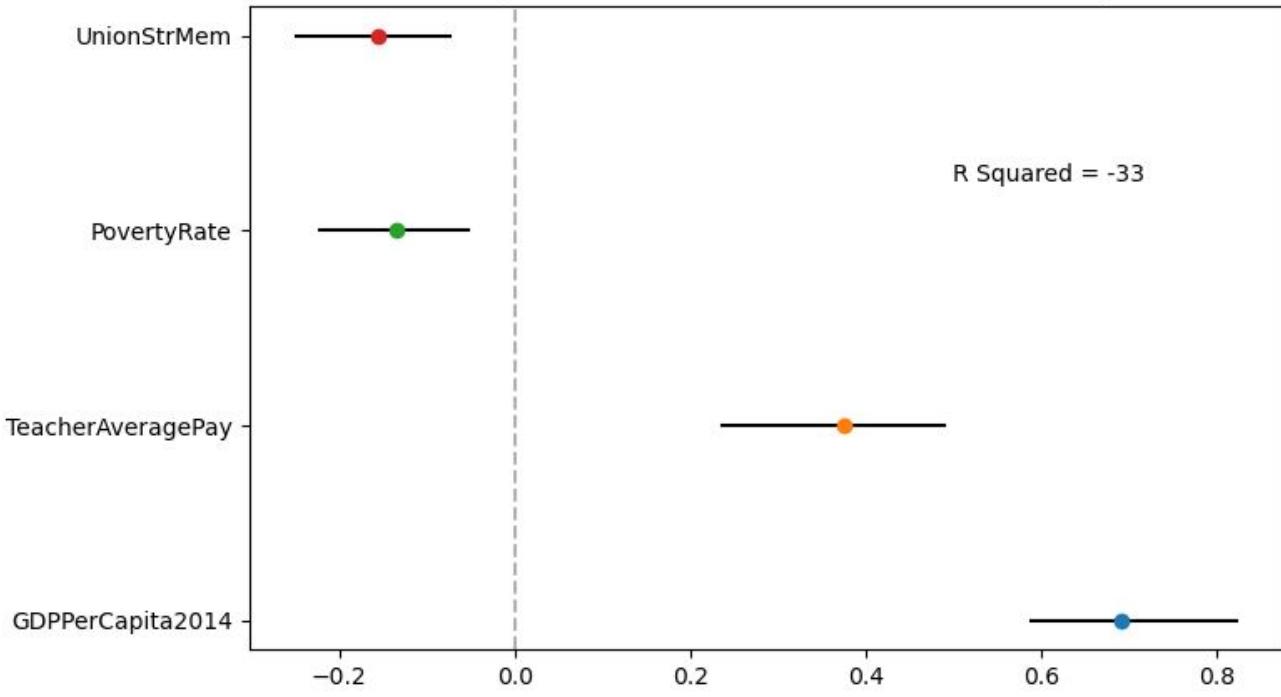
# Models

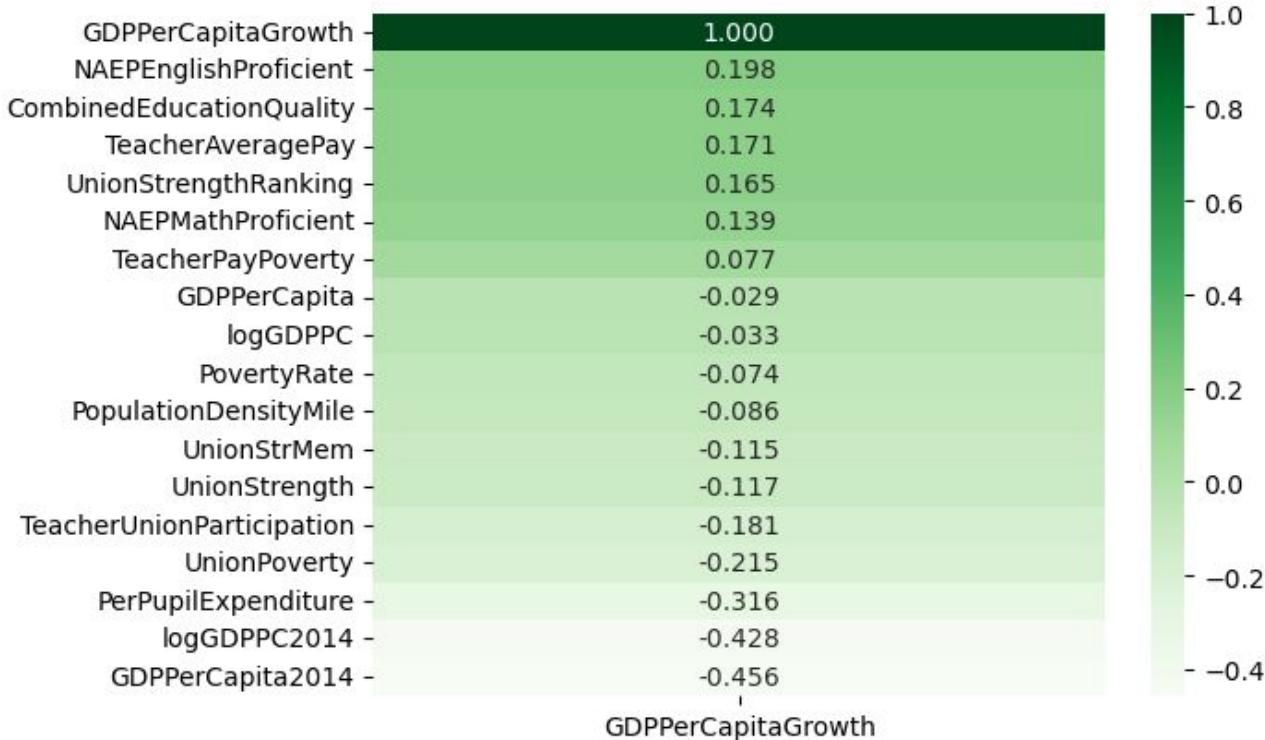


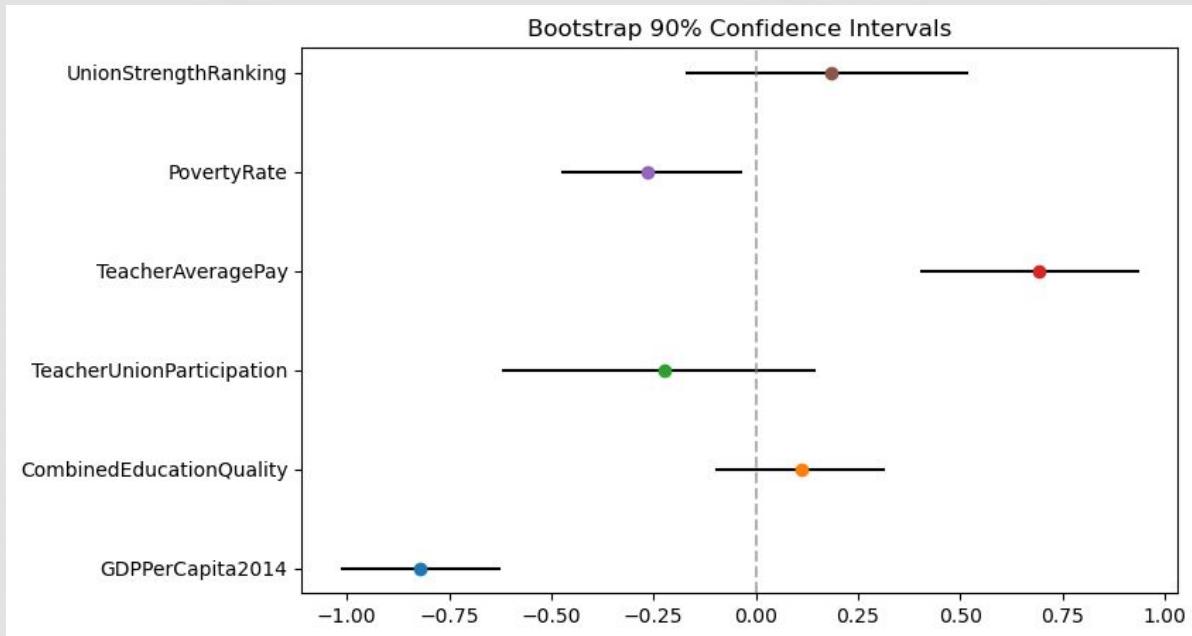


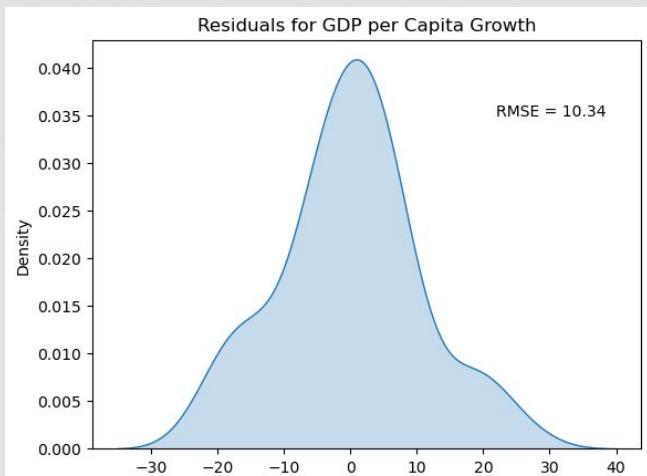
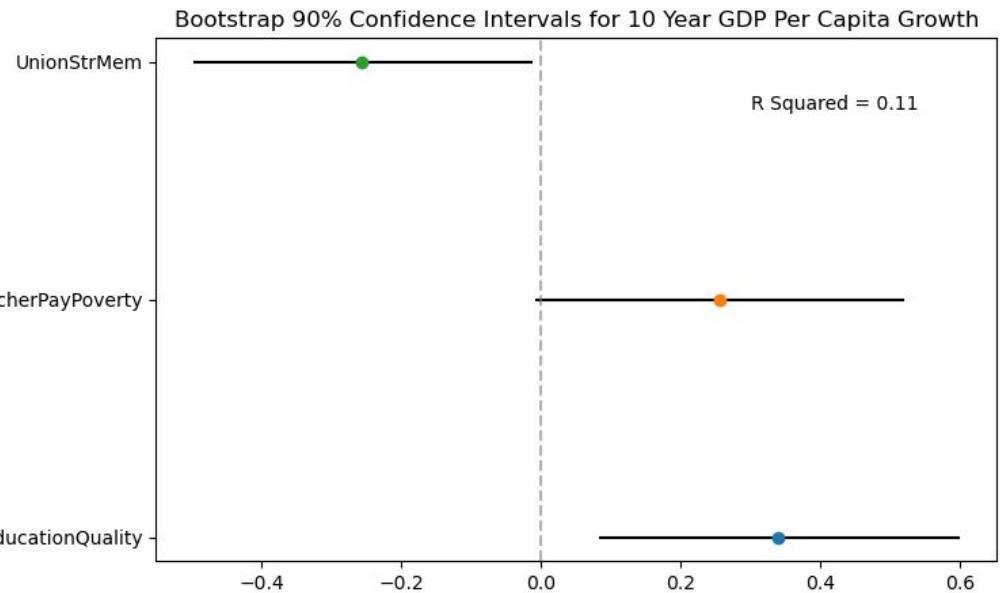


### Bootstrap 90% Confidence Intervals for GDP Per Capita









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# Summary & Future



## Correlation vs. Causation: Untangling the Web of Relationships

