



Team Diversity

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Question

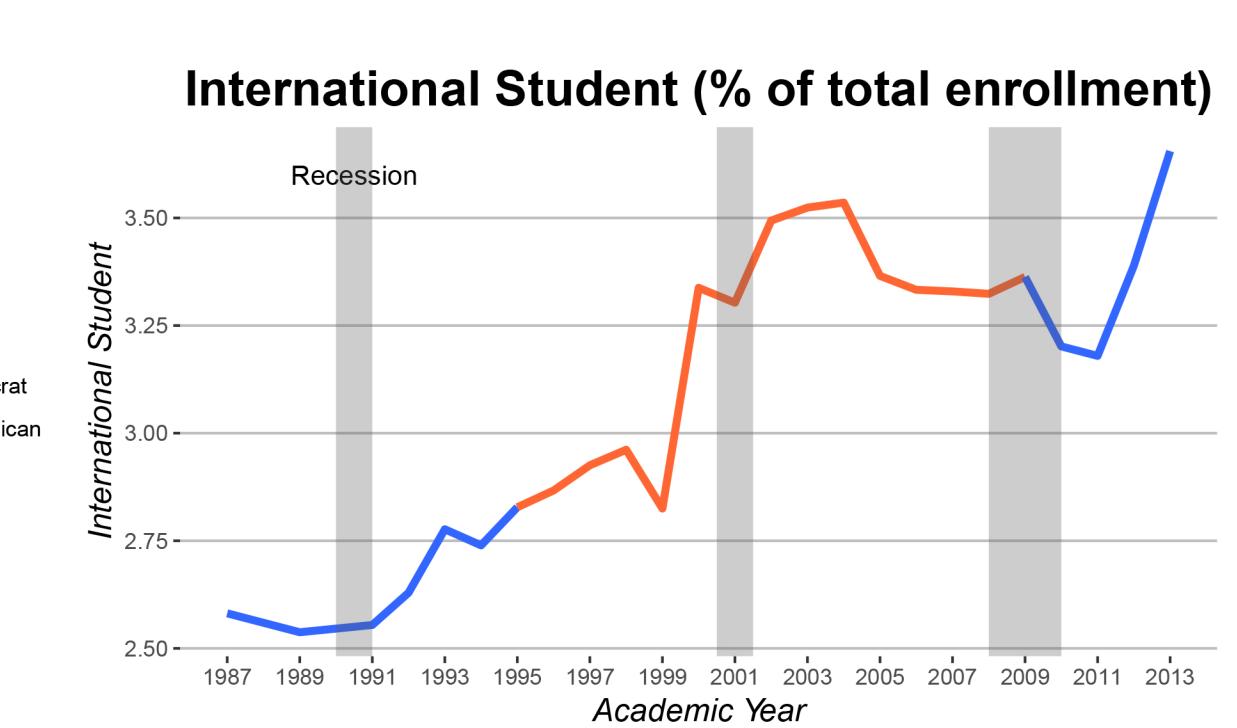
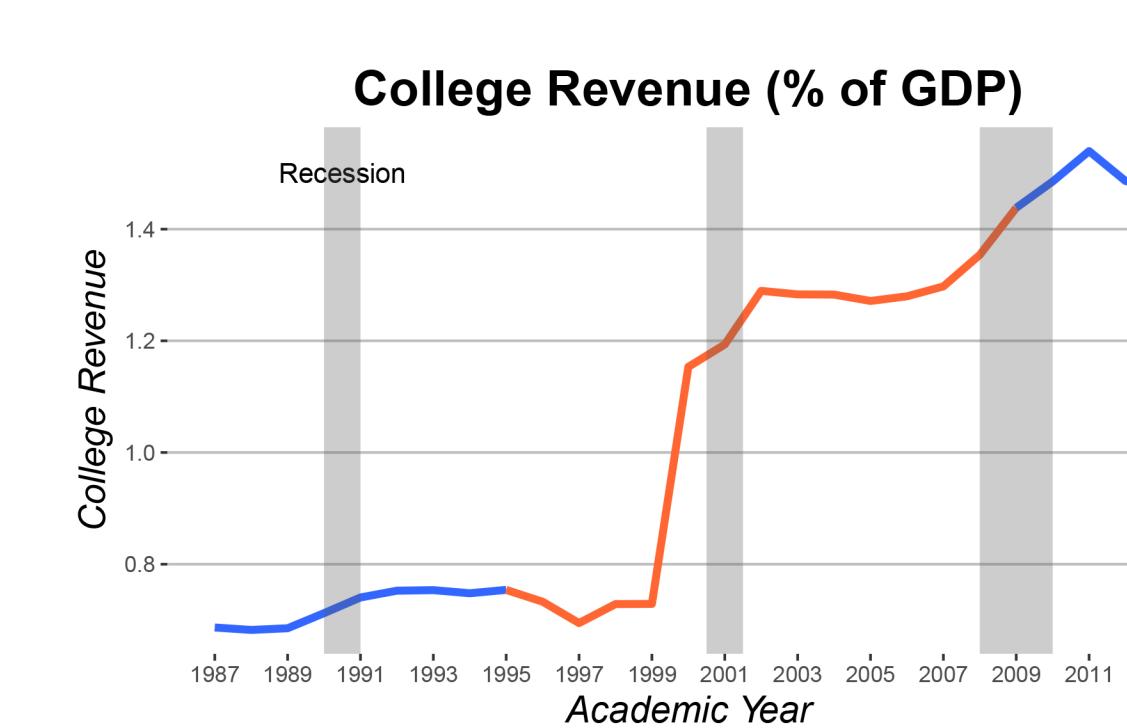
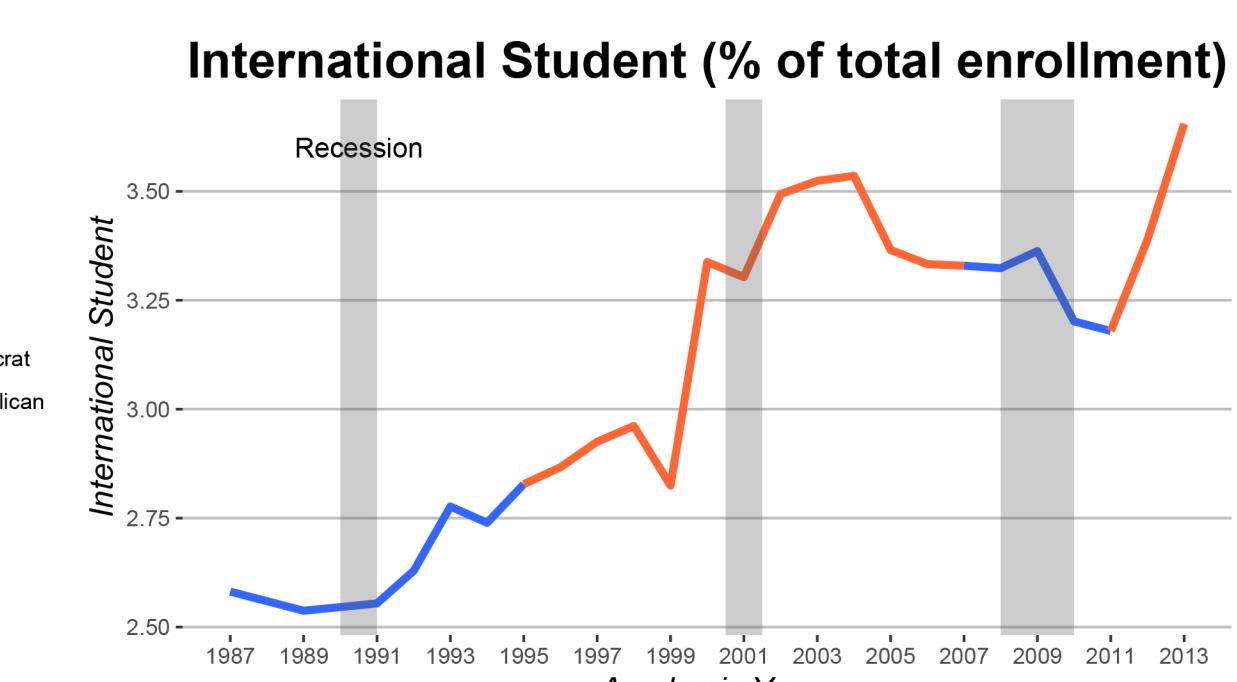
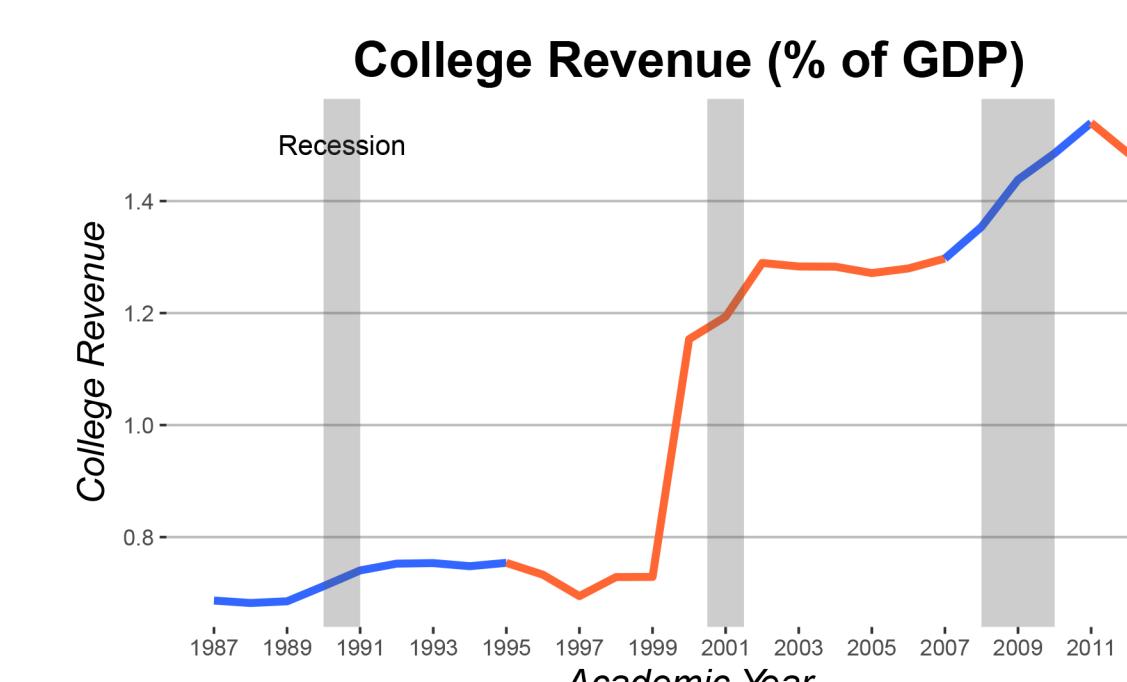
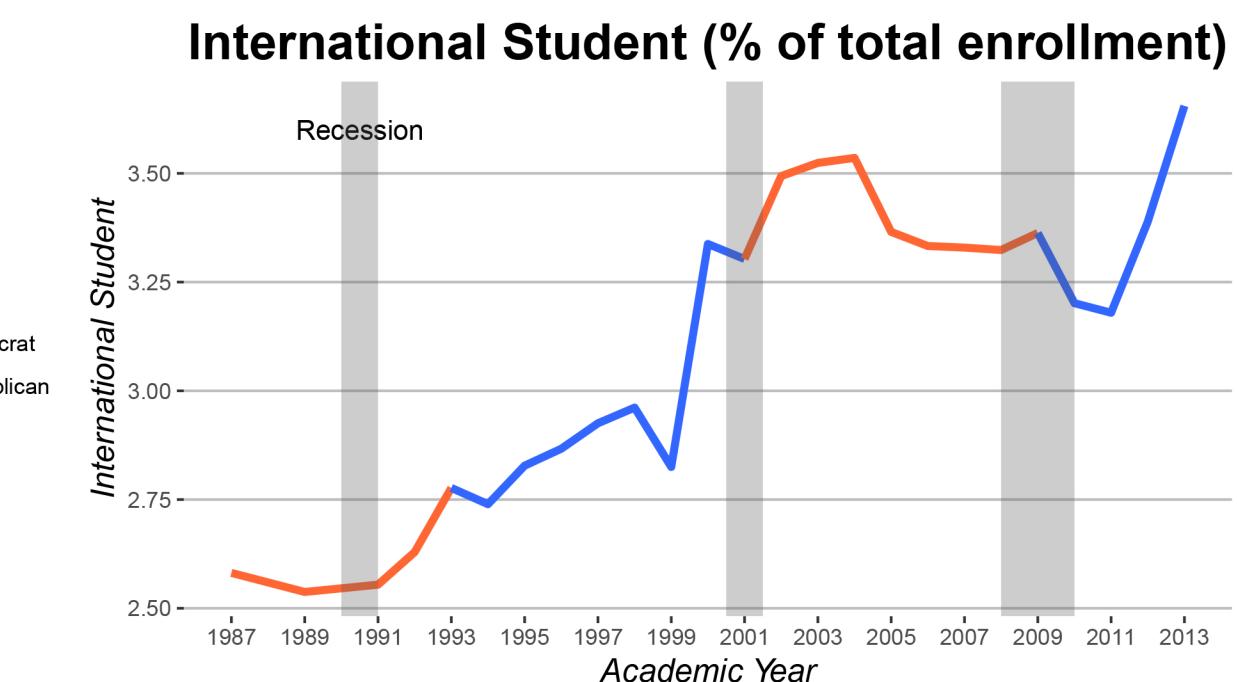
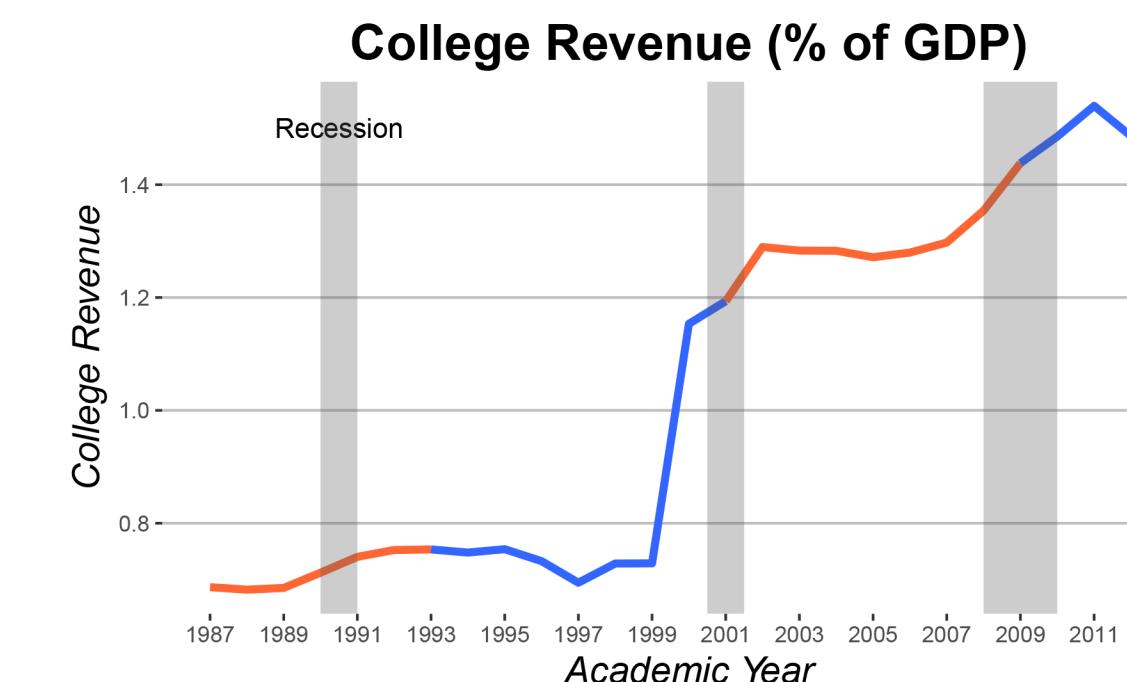
- How will president, senate and house affect international students?
- Is there relationship between proportion of international students and college revenue?
- How will international students from the seven countries in the immigration executive order be affected under Trump administration?

Methods

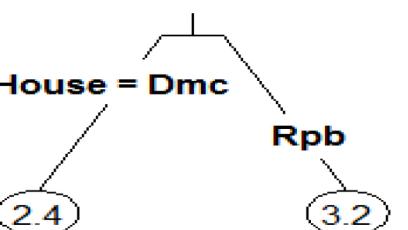
- UNIX
- Web-Scrape
- Data Wrangling
- Data Visualization
- Regression Analysis

Datasets

- Delta Cost Project Database
 - Time Period: from 1987 to 2013
 - Variables: Academic year, total enrollment, government funding, international students
- Visa
 - Time Period: from 1997 to 2016
 - Variables: F1, J1, M1, total visa, country, year
- Congress Data
 - Time Period: from 1855 to 2015
 - Variables: year, chamber, party status, seats
- Presidential Party (Web-Scrape)
 - Time Period: from 1841 to 2017
 - Variables: party, year



Regression Analysis

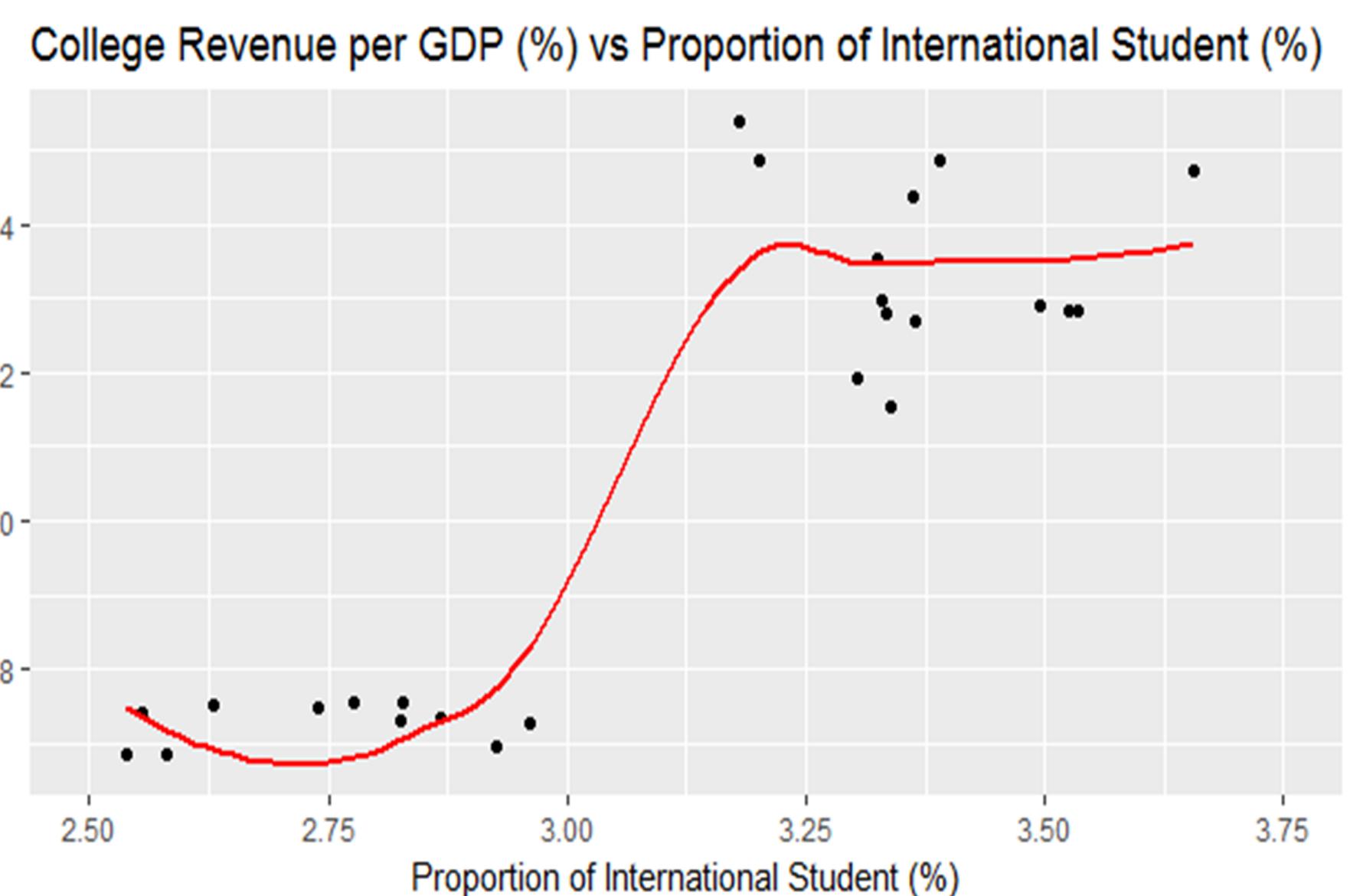


By plugging in Republican (the current political party) to all three variable, the following model predicts that the proportion of international students is 3.234834%.

```
rpart(Prop_Intl_Student ~ Party + House + Senate,
      data_clean)
```

Following the above findings, the following model predicts that the college revenue generated per GDP is 1.160418%.

```
lm(Income_per_GDP ~ poly(Prop_Intl_Student, 2),
    data = data_clean)
```



President Trump's Immigration Executive Order: Iran, Iraq, Libya, Somalia, Sudan, Syria, and Yemen

In addition, the following model predicts that in 2020 the number of international students from the seven countries in the immigration executive order is 0.004799307% of total enrollment

