# Crime and Education in Chicago 2002-2017

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#### Project Description

- General spatial trends of crime over time
- Trends in categorical frequency
- Supervised learning to predict trends in unseen areas
- Correlation between crime and education

#### **Prior Work**

- Governmental reports
- https://en.wikipedia.org/wiki/Crime\_in\_Chicago

#### Chicago Datasets

- Crime Data
  https://catalog.data.gov/dataset/crimes-2001-to-present-398a4
- Census Data
  https://data.cityofchicago.org/Health-Human-Services

### Proposed Work

- Reduce dimension of database.
- Store data in well-indexed relational table.
- Ensure consistent formatting for analysis.
- Run preliminary analysis and remove outliers/high leverage points.
- Analyze how categorical frequency is correlated to time.
  (Dependent)

## Tools

- git
- Python
- R
- C
- C++
- an SQL distro
- Excel
- Slack
- Tableau



#### How to Evaluate Results

- Generate plots that clearly demonstrate our statistical results.
- Randomly subset data and see how well our model can predict those data.
- Publish them, obviously.

## Questions?

