

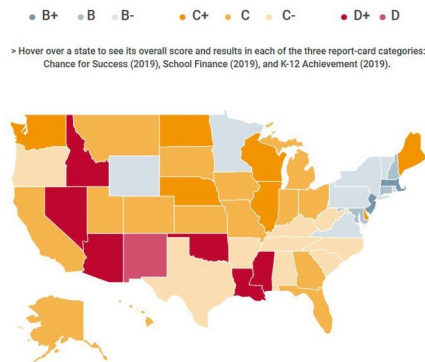
# Education Investigation: LA and NJ

---

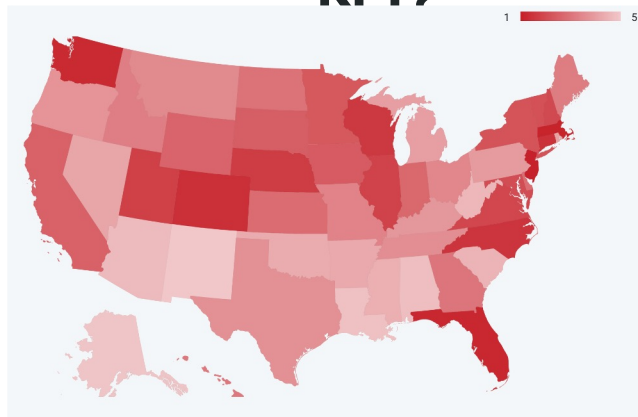
**Nick Ouellet and Garrett Gilliom**

*CMPS 3160: Intro to Data Science*

# Why Education and School Districts? Why LA and NJ?



SOURCE: Education Week Research Center, 2019



## K-12 Education

Louisiana Public School Districts

**Bottom Few**

New Jersey Public School Districts

**Top Few**

## Questions to Consider:

What major differences exist between these two states?

Where might these discrepancies come from?

Are relationships present between school district performance and quantifiable variables?

# Data Collection, Processing, and ETL

## Louisiana



Finances, enrollment data



Academic performance data

## New Jersey



STATE OF NEW JERSEY  
DEPARTMENT OF EDUCATION

Finances, enrollment data,  
AND school performance

### Finances

Monetary Difference  
Revenue  
Expenditures  
Revenue/Pupil

### Enrollment

Student population  
Student:Teacher

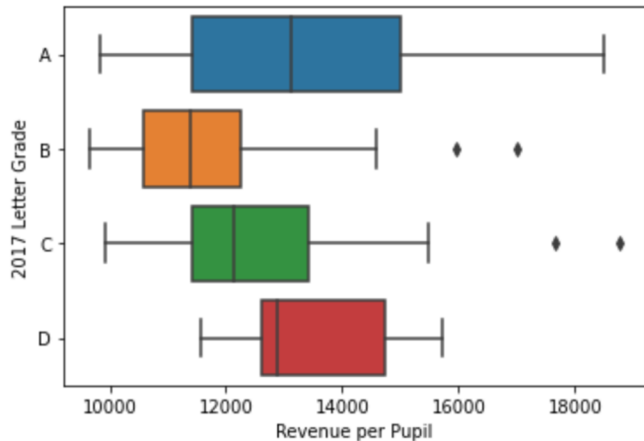
### Performance

ACT Score (avg)  
4-year graduation  
rate

# EDA Highlights – Full of Surprises

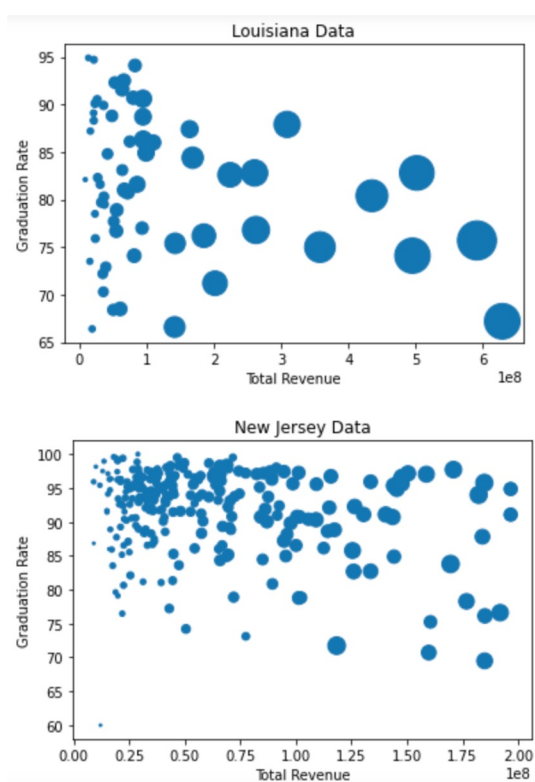
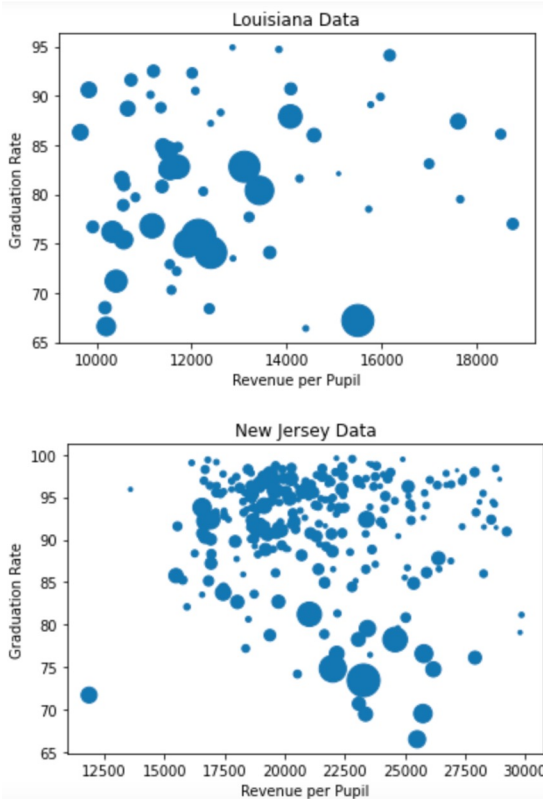
(Dot size == student population size)

## Louisiana School District Performance

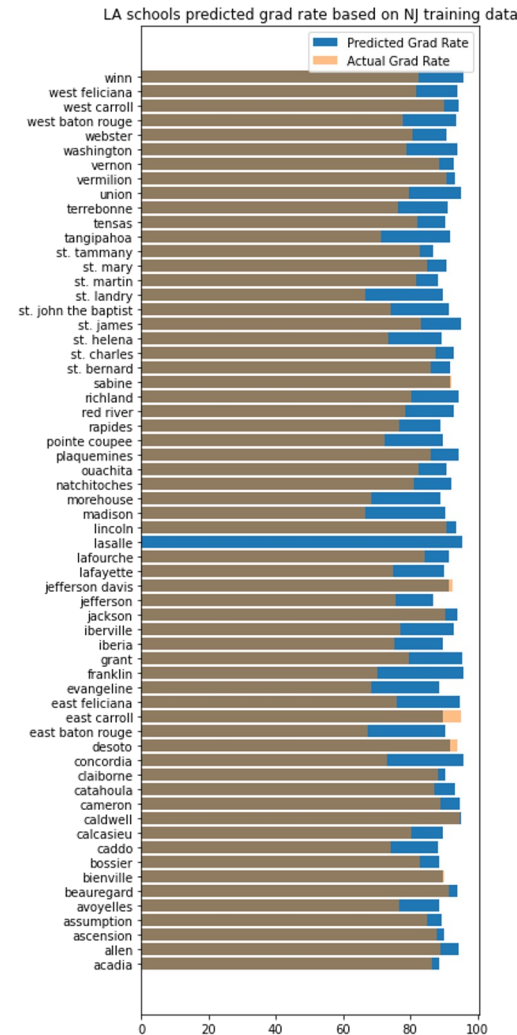
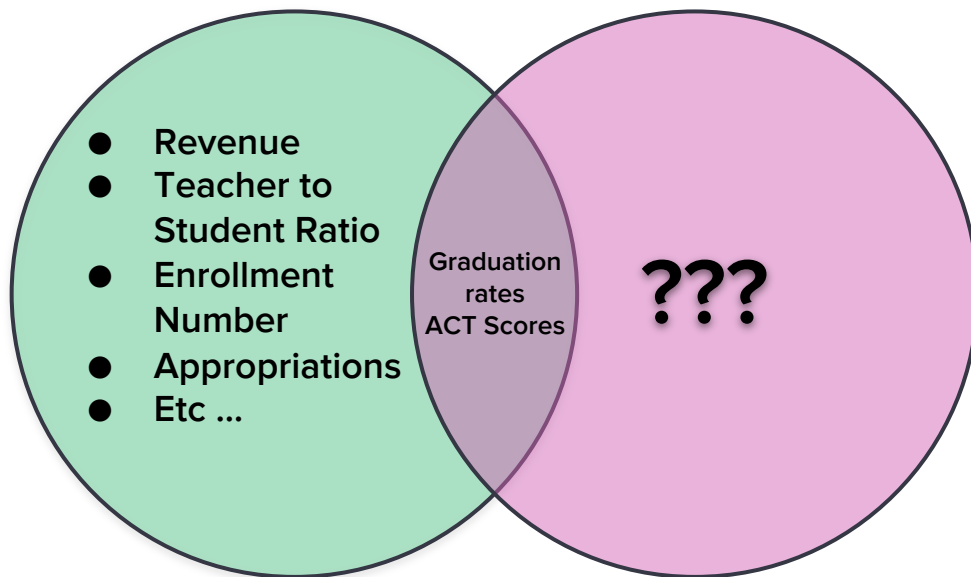


New Jersey total revenue:  
28829669158.0  
New Jersey school district count: 582  
**New Jersey average total revenue:**  
**\$88,434,567.97**

Louisiana total revenue: 7387585000.0  
Louisiana school district count: 62  
**Louisiana average total revenue:**  
**\$119,154,596.77**



# Hypothesis and Evidence



# Takeaways



Louisiana Public  
School Districts



New Jersey Public  
School Districts

Total Average Revenue **\$119,154,596**

**\$88,434,567**

Average Graduation Rate **81%**

**91%**

