Black Women & Policing

By Lily Yao & Srinidhi Muralidharan

Overview

• Readings

Background on Data

• Data Analysis



The Innocence Project

Smoke But No Fire by Jessica S. Henry

Reasons

- Police Misconduct
- Forensic Errors
- Witness Misidentification
- False Confessions



SMOKE BUT NO FIRE

Convicting the Innocent of Crimes that Never Happened

JESSICA S. HENRY







Kwame Ajamu

Sabrina Butler

Randal Padgett

Women in Statistics

The Lady Tasting Tea by David Salsburg

THE LADY TASTING TEA

How STATISTICS Revolutionized Science in the Twentieth century

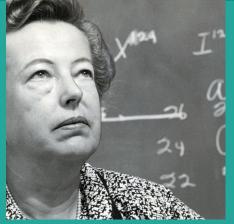


DAVID SALSBURG

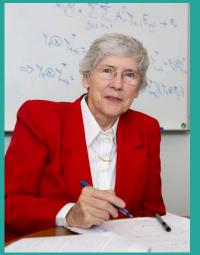
"A fascinating description of the kinds of people who interacted, collaborated, disagreed, and were brilliant in the development of statistics," —Barbara A. Bailar, National Opinion research Center



Florence Nightingale



Maria Goeppert Mayer





The Three Mothers

- 11 times more partner violence

- More likely to **not** report domestic violence

- Imprisoned at **twice** the rate

NEW YORK TIMES BESTSELLER THE THREE MOTHERS





How the Mothers of MARTIN LUTHER KING, JR., MALCOLM X, and JAMES BALDWIN Shaped a Nation

ANNA MALAIKA TUBBS

Dataset & Background

In Her Place Survey Data

Numbers Justice SURVEY

- Survey Details
- Authors
- Columns





IN

Yasmin Irizarry

Shannon Malone Gonzalez

Methods & Challenges

1. Exploratory Data Analysis

- a. Data Restrictions: 1532/1698 columns are restricted
- b. Sampling Bias

2. Data Cleaning and Manipulation using the Pandas library

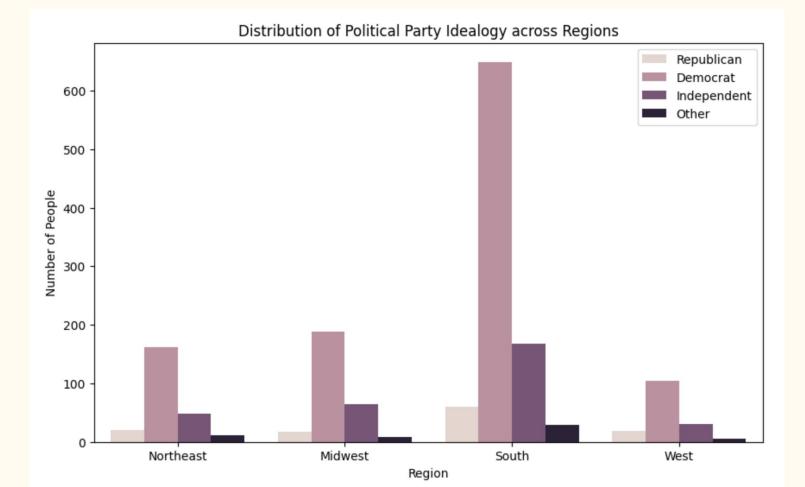
a. Dropped the rows with NA, negative, and invalid values.

3. Data Visualization using the Seaborn library

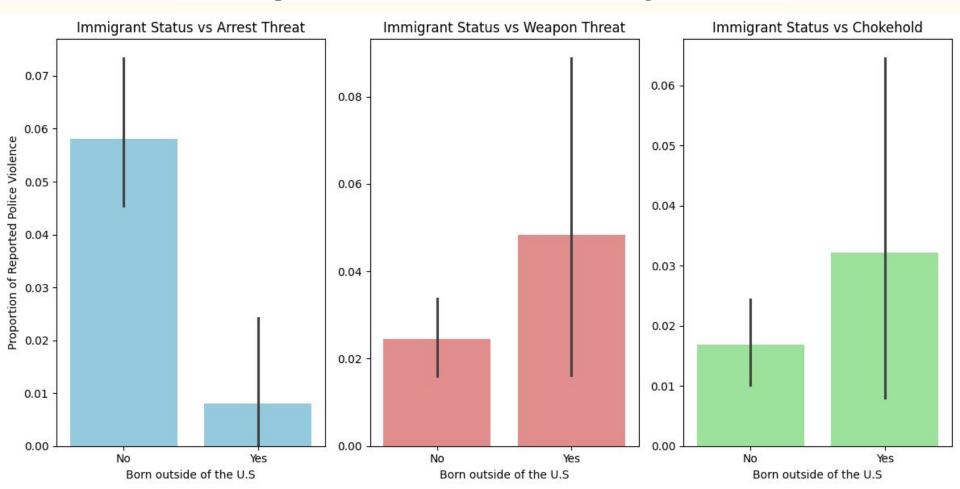
- a. Categorical Data: Bar graphs
- b. Trend analysis: Simple linear regression

Data Visualizations

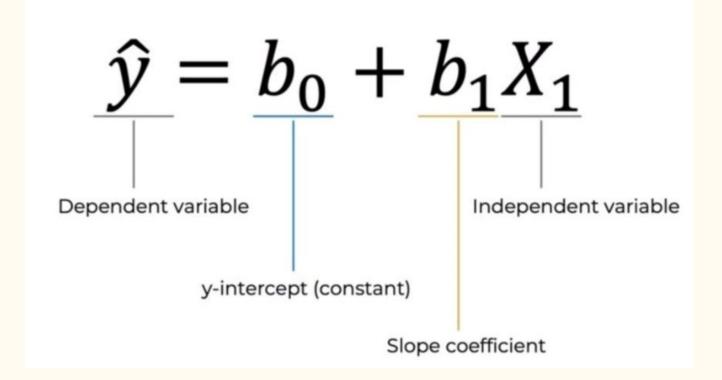
How does the region of US compare with the Political Ideology of Black Women?



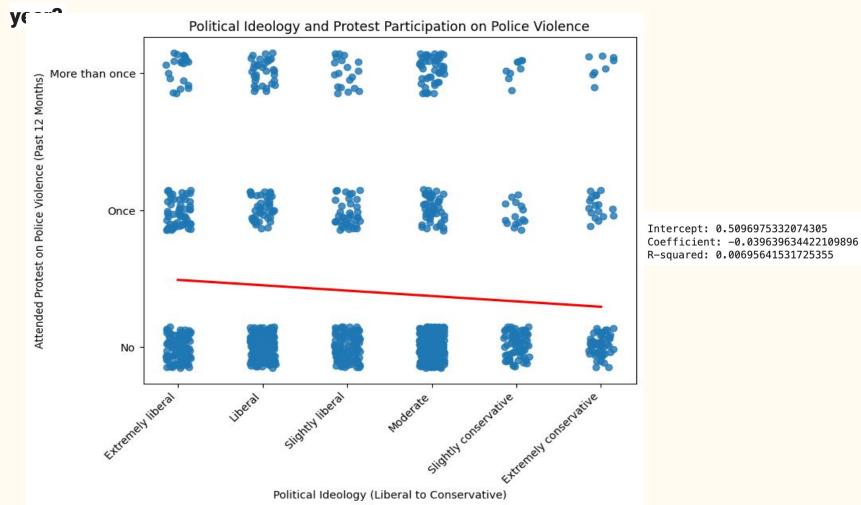
How does police interaction differ between immigrant statuses?



Simple Linear Regression



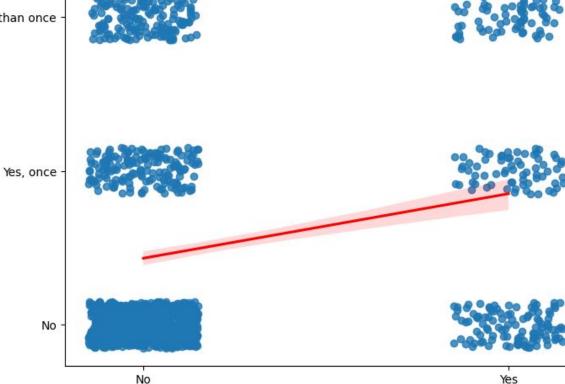
Do political views correlate with attending a police violence protest in the past



Does being ignored by police when reporting an issue as a child impact willingness to seek police help in adulthood?

Police Dismissal during childhood VS Hesitant to seek help from police in adulthood

Yes, more than once



Dismissed by Police as a Child

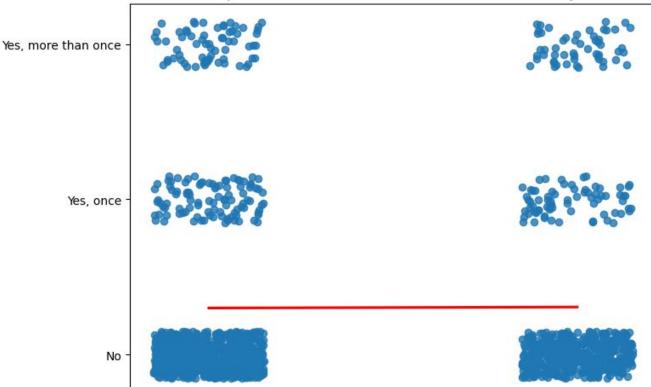
Intercept: 0.4224598930481285
Coefficient: 0.4034660328777969
R-squared: 0.04001207732588763

Does experiencing a police talk at a young age impact arrest rates in adulthood?

Yes

Impact of Police Interaction Advice on Arrest History

Ever received advice about how to interact with police



No

Intercept: 0.3003851091142488 Coefficient: 0.006528887513070286 R-squared: 2.6984493695314526e-05

Ever been arrested

Work Cited

HENRY, JESSICA S. Smoke but No Fire: Convicting the Innocent of Crimes That Never Happened. UNIV OF CALIFORNIA PRESS, 2021.

Tubbs, A. M. (2021). The three mothers: How the mothers of Martin Luther King, Jr., Malcolm X, and James Baldwin shaped a nation. Flatiron Books.

Salsburg, D. (2001). The lady tasting tea: How statistics revolutionized science in the twentieth century. W. H. Freeman.

Malone Gonzalez, Shannon; Irizarry, Yasmiyn, 2024, "In Her Place Survey on Black Women and Policing", <u>https://doi.org/10.7910/DVN/UXTOVN</u>, Harvard Dataverse, V1

Thank you!

