

# Judd.world

Easy access to New York State's conviction  
and sentencing data



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01

# Introducti on

# Stack

- **Data Collection and Scraping:** Python, Selenium, Pandas
- **Data Processing:** JavaScript
- **Database:** Supabase
- **Webstack:** React, Node, Vite
- **Data Visualization:** React-chartjs

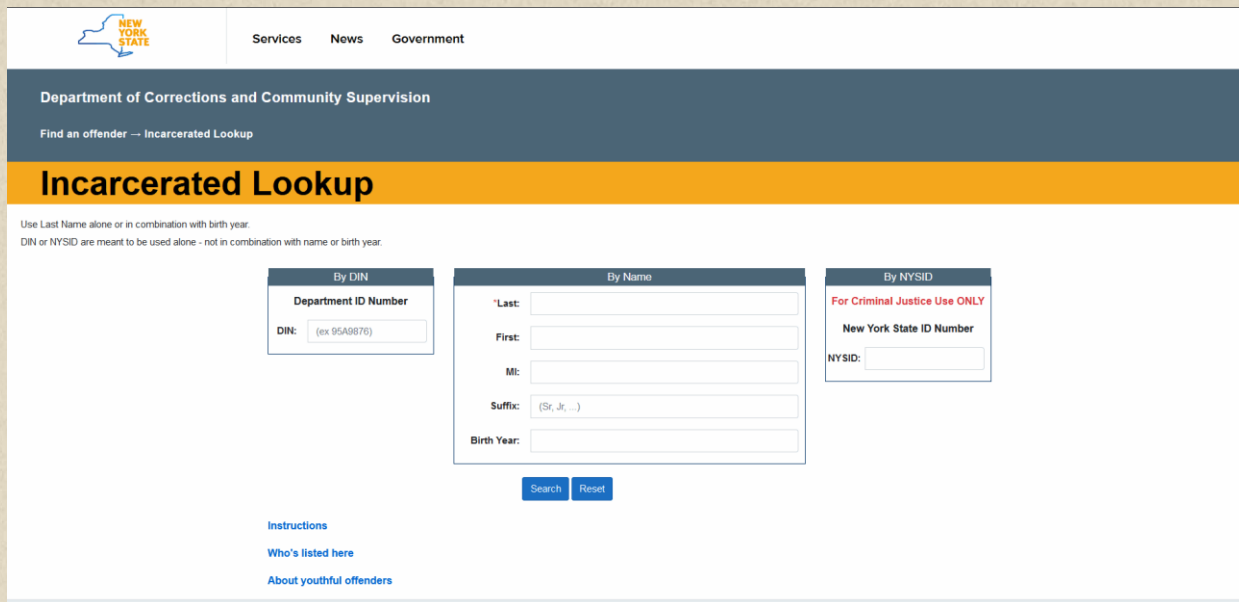
**Select Filter:**

**Age Ranges:**

**Selected crime(s) and degree(s):**

# Data Collection

Due to the nature of the way the New York State Corrections And Community Supervision website presents the data, I had to interact with elements on the web page and then scrape the data. This meant that I had to use a dynamic web scraper, and so I built one using Selenium.



The screenshot shows the 'Incarcerated Lookup' page of the New York State Department of Corrections and Community Supervision. The page has a header with the New York State logo and navigation links for 'Services', 'News', and 'Government'. Below the header, there's a dark blue bar with the text 'Department of Corrections and Community Supervision' and a link 'Find an offender → Incarcerated Lookup'. The main title 'Incarcerated Lookup' is in a large orange bar. Below this, there's a section with instructions: 'Use Last Name alone or in combination with birth year. DIN or NYSID are meant to be used alone - not in combination with name or birth year.' There are three search forms: 'By DIN' with a 'Department ID Number' field and a 'DIN' field (example: 95A9876); 'By Name' with fields for 'Last', 'First', 'MI', 'Suffix' (example: Sr, Jr, ...), and 'Birth Year'; and 'By NYSID' with a 'New York State ID Number' field and a 'NYSID' field. A red note says 'For Criminal Justice Use ONLY'. At the bottom, there are 'Search' and 'Reset' buttons, and links for 'Instructions', 'Who's listed here', and 'About youthful offenders'.

NEW YORK STATE

Services News Government

Department of Corrections and Community Supervision

Find an offender → Incarcerated Lookup

## Incarcerated Lookup

Use Last Name alone or in combination with birth year.  
DIN or NYSID are meant to be used alone - not in combination with name or birth year.

**By DIN**

Department ID Number

DIN: (ex 95A9876)

**By Name**

\*Last:

First:

MI:

Suffix: (Sr, Jr, ...)

Birth Year:

**By NYSID**

For Criminal Justice Use ONLY

New York State ID Number

NYSID:

Search Reset

[Instructions](#)

[Who's listed here](#)

[About youthful offenders](#)



# Data Preprocessing

After getting the data from the html elements using selenium, I used a pandas dataframe to normalize the data and handle missing data. And as each page was scraped, I appended it to a csv file. After scraping approximately 300,000 pages I wrote another script to remove duplicates from the csv and added each unique entry into another csv file.

# Demonstration

[Home](#)[Simple Averages](#)[Simple Average Plots](#)[Simple Average Comparisons](#)

## Average Sentences

### Crime(s) Selection

Note that unspecified degree(s) will be defaulted to 1ST

Note that an unspecified filter will default to AGE

#### Crime 1

Select Crime(s)



Select a Degree



#### Crime 2 (optional)

Select Crime(s)



Select a Degree



#### Crime 3 (optional)

Select Crime(s)



Select a Degree



#### Crime 4 (optional)

Select Crime(s)



Select a Degree



#### Select Filter


Select Filter







# Next Steps

- Work on design
  - Transition from supabase to postgres database
  - Bug fixes
- 

# Thanks

**Do you have any questions?**

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