

# STREAMLIT SCREENSHOTS

## 🔒 SECURE CHECK: DIGITAL LEDGER FOR POLICE CHECK POST 🚔

An interactive dashboard for analyzing police stop data using MySQL and Python

🛡️ Law Enforcement & Public Safety Real-time Monitoring Systems

### 📄 Police Log Records

	Stop_Date	Country_name	Driver_gender	Driver_age	Driver_race	Violation	Search_conducted	Search_type	Stop_outcome	is_arrested	Stop_duration
0	2020-01-01	Canada	M	19	Asian	Speeding	1	Vehicle Search	Ticket	1	16-30 Min
1	2020-01-01	India	M	58	Other	Other	0	Vehicle Search	Arrest	1	16-30 Min
2	2020-01-01	USA	M	76	Black	Speeding	0	Frisk	Ticket	1	16-30 Min
3	2020-01-01	Canada	M	76	Black	DUI	1	Frisk	Warning	0	0-15 Min
4	2020-01-01	Canada	M	75	Other	Other	0	Vehicle Search	Arrest	1	16-30 Min
5	2020-01-01	Canada	F	73	Other	Other	1	Vehicle Search	Ticket	0	16-30 Min

## 📌 Key Metrics

📊 Total Stops

65538

🔒 Arrests

32846

🚔 Drug-Related Stops

32769

## 🌍 Choropleth: Arrest Rate by Country

🌐 Arrest Rate by Country (%)



arrest\_rate  
■ 50.21  
■ 50.42  
■ 49.72



# Advanced Police Stop Data Insights



## Medium-Level Queries



## Complex-Level Queries

Select a Medium Query

Time of day with most traffic stops

Select a Complex Query

Violations with High Search and Arrest Rates

Run Medium Query

Run Complex Query



# SecureCheck: Stop Outcome & Violation Predictor



## Enter Stop Details

Stop Date

2025/05/15

Stop Time

Canada

Driver Gender

F

Driver Age

36

Driver Race

Asian

Search Conducted

1

Search Type

Is Arrested

0

Is Arrested

0

Stop\_duration

30+ Min

Drugs Related Stop

1

Vehicle Number

BHTY6899I-

Predict Stop Outcome and Violation

Filtered-data for prediction:

	Driver_age	Driver_race	↑ Violation	Search_conducted	Search_type	Stop_outcome	is_arrested	Stop_duration	Drugs_related_stop	Vehicle_Number
26049	36	Hispanic	DUI	1	Vehicle Search	Arrest	0	30+ Min	1	RJ21YG8780
28773	36	White	DUI	1	Unknown	Ticket	0	30+ Min	1	WB14MD3641
31219	36	White	DUI	1	Vehicle Search	Warning	1	30+ Min	1	KA76TF9646
34717	36	Hispanic	DUI	1	Unknown	Arrest	1	30+ Min	1	TN49WW2365
43468	36	Black	DUI	1	Vehicle Search	Arrest	0	30+ Min	1	RJ50NG6145
45289	36	Hispanic	DUI	1	Frisk	Arrest	1	30+ Min	1	KA28RN4064
64265	36	Other	DUI	1	Frisk	Arrest	0	30+ Min	1	KA34VC7605
2136	36	Asian	Other	1	Frisk	Arrest	1	30+ Min	1	MH44QZ6963
2747	36	Hispanic	Other	1	Vehicle Search	Arrest	0	30+ Min	1	MH70XL5042
5507	36	Other	Other	1	Vehicle Search	Warning	1	30+ Min	1	KA60FY9309
7742	36	Asian	Other	1	Vehicle Search	Ticket	0	30+ Min	1	KA19AX6914

2136	36	Asian	Other	1	Frisk	Arrest	1	30+ Min	1	MH44QZ6963
2747	36	Hispanic	Other	1	Vehicle Search	Arrest	0	30+ Min	1	MH70XL5042
5507	36	Other	Other	1	Vehicle Search	Warning	1	30+ Min	1	KA60FY9309
7742	36	Asian	Other	1	Vehicle Search	Ticket	0	30+ Min	1	KA19AX6914



Prediction Summary



A 36-year-old female driver was stopped for DUI at 22:30:00.

A search was conducted, and he received a **Arrest**. The stop lasted for 30+ Min and was **drug related**.

**Predicted violation:** DUI

**Vehicle Number:** BHTY6899I-

**Predicted Outcome:** Arrest