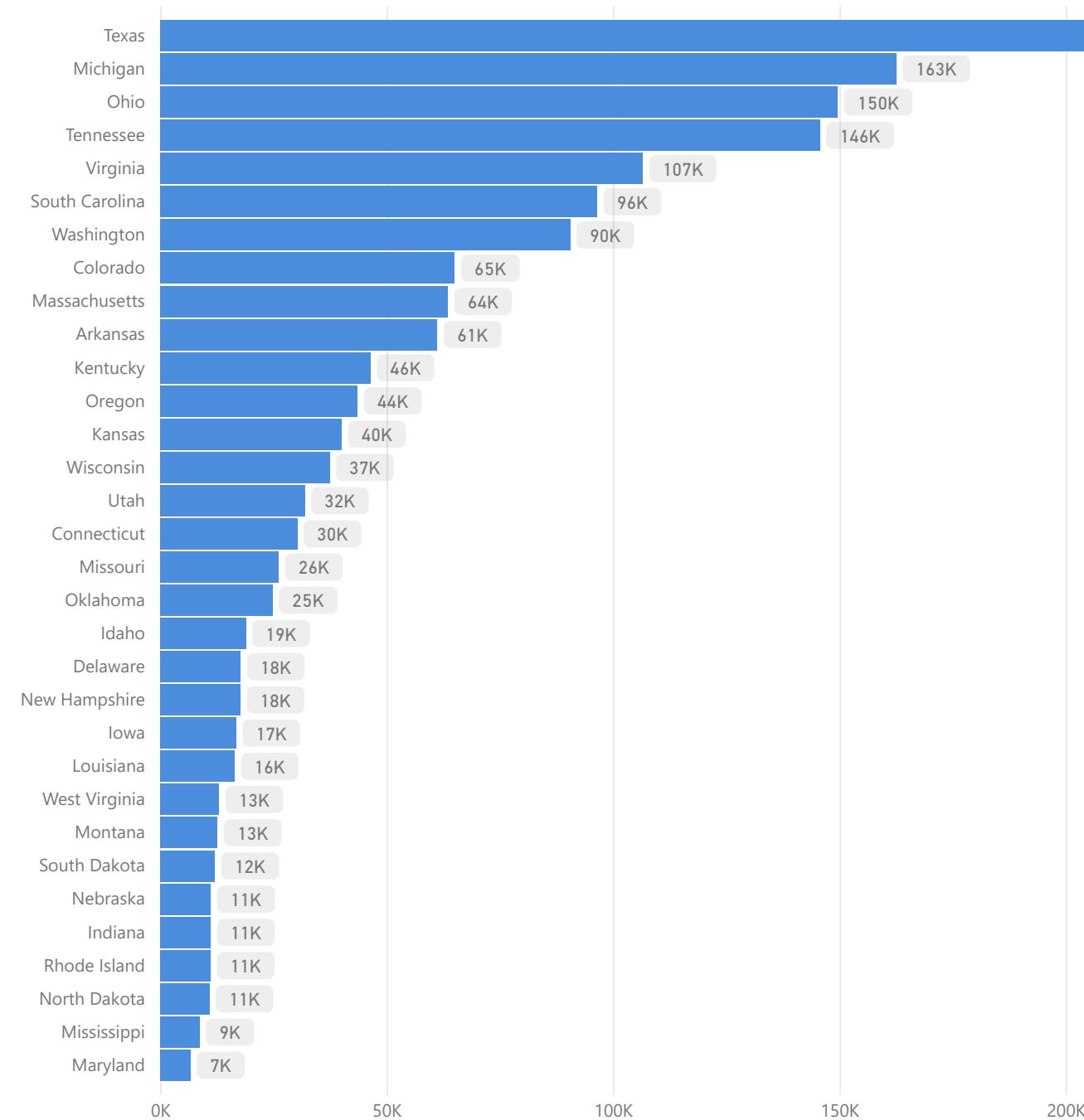


## Forecasted Total Offenses by State



## State

- Alabama
- Arizona
- Arkansas
- Colorado
- Connecticut
- Delaware
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- New Hampshire
- North Dakota
- Ohio
- Oklahoma
- Oregon
- Pennsylvania
- Rhode Island
- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Vermont

Total Offenses

**1,725,358**

FBI NIRBS Total [Quantifiable]

**1,647,195**

Forecasted Total Count

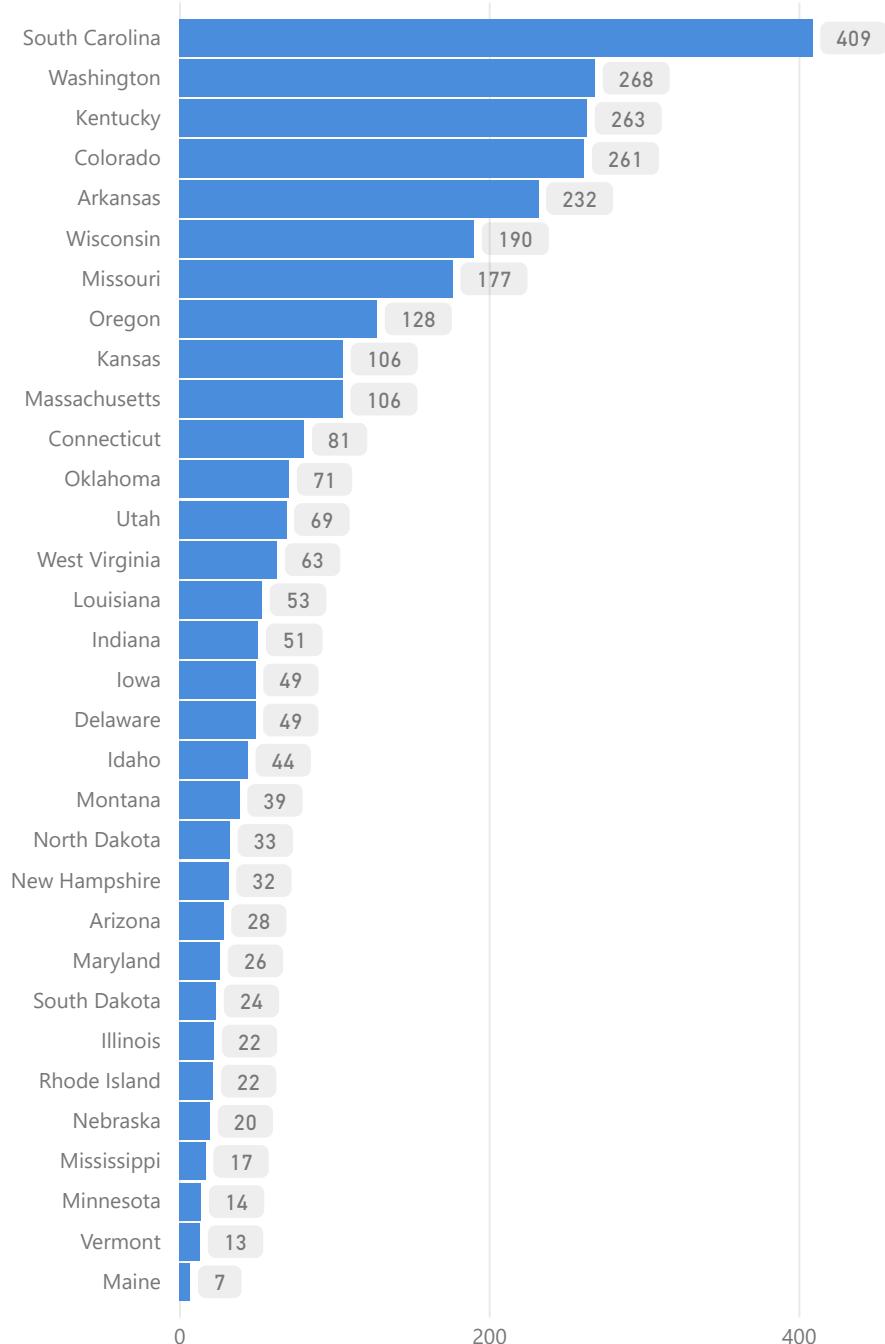
**-4.53%**

Forecasting Error

**91.69%**

Forecasting Accuracy

## Forecasted Homicide Offenses by State



### State

- Wisconsin
- West Virginia
- Washington
- Virginia
- Vermont
- Utah
- Texas
- Tennessee
- South Dakota
- South Carolina
- Rhode Island
- Pennsylvania
- Oregon
- Oklahoma
- Ohio
- North Dakota
- New Hampshire
- Nebraska
- Montana
- Missouri
- Mississippi
- Minnesota
- Michigan
- Massachusetts
- Maryland
- Maine
- Louisiana
- Kentucky
- Kansas
- Iowa
- Indiana
- Illinois
- Idaho
- Delaware
- Connecticut

Homicide Offenses

**6719**

FBI NIRBS Homicide [Quantifiable]

**5781**

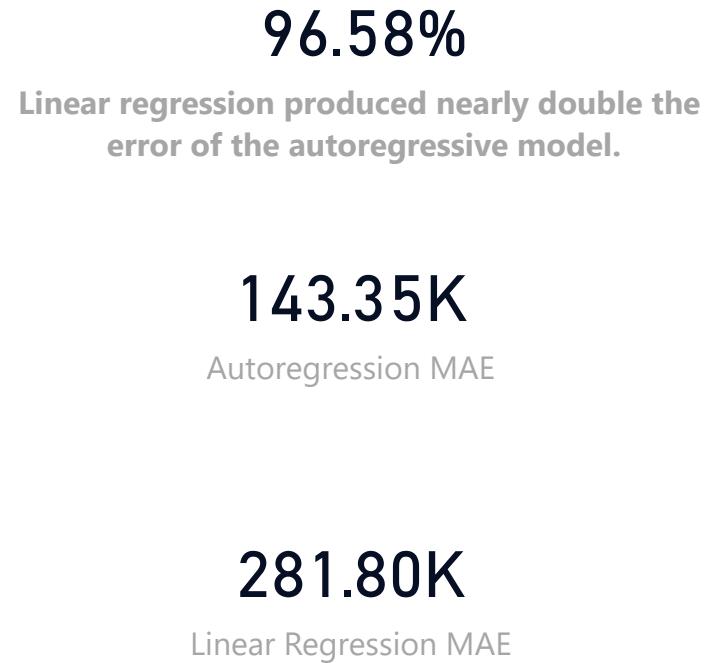
Forecasted Homicide Count

**-13.96%**

Forecasting Error

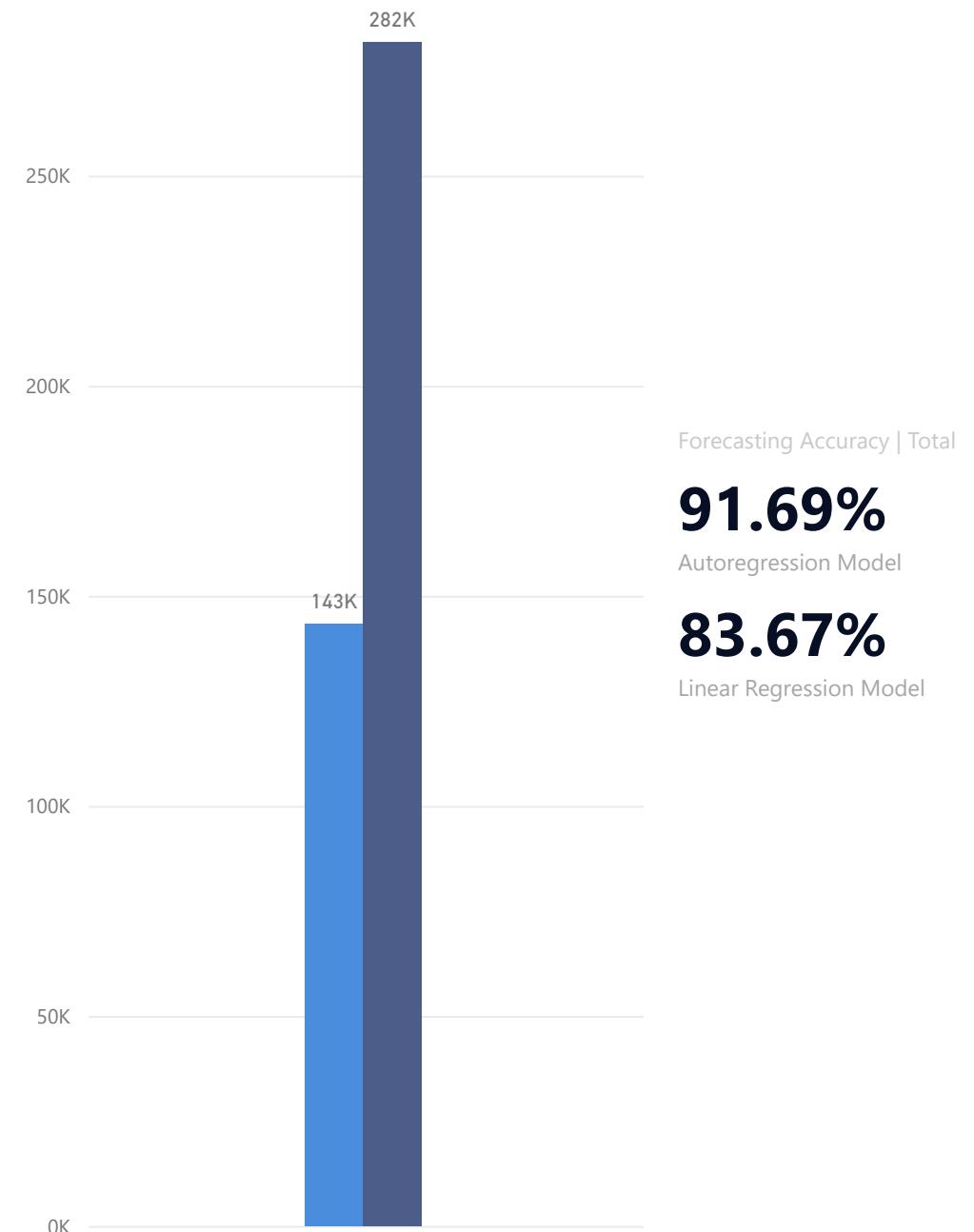
**86.04%**

Forecasting Accuracy



Model MAE Forecasting | Total

● Autoregression ● Linear Regression



## ERROR MAGNITUDE

HIGHER = WORSE

**31.82%**

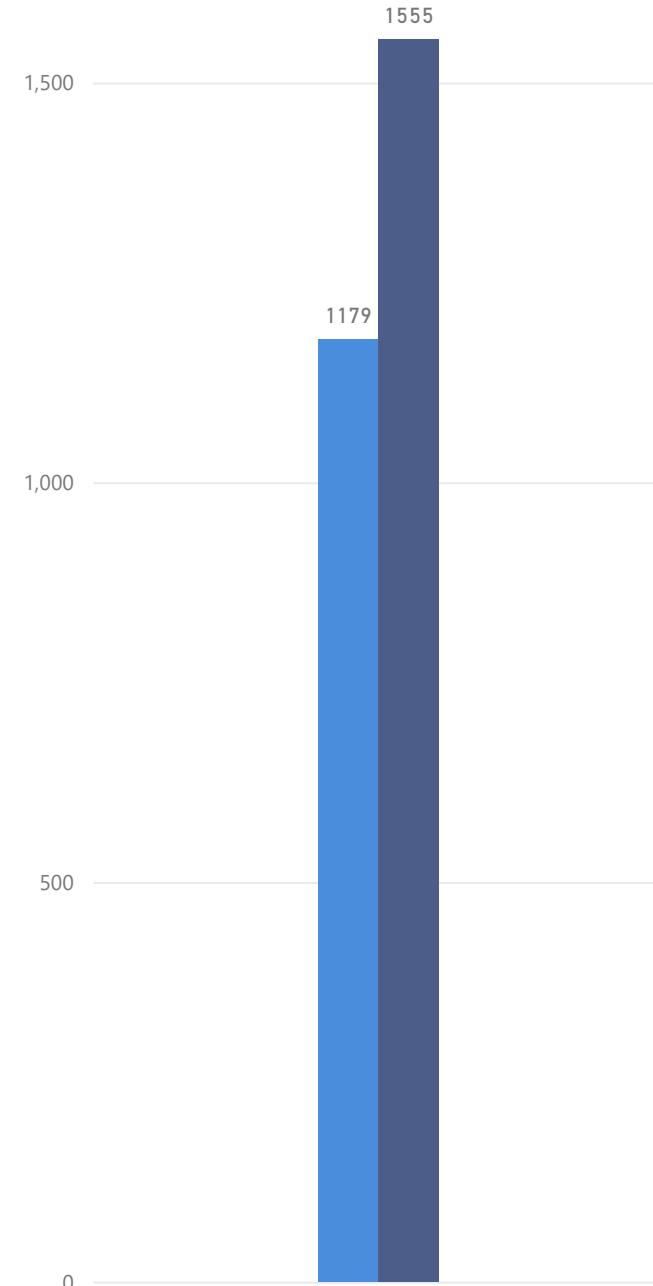
Linear regression showed moderately higher error  
compared to the autoregressive model.

**1.18K**

Autoregression MAE

**1.55K**

Linear Regression MAE



Forecasting Accuracy | Homicide

**82.45%**

Autoregression Model

**76.86%**

Linear Regression Model