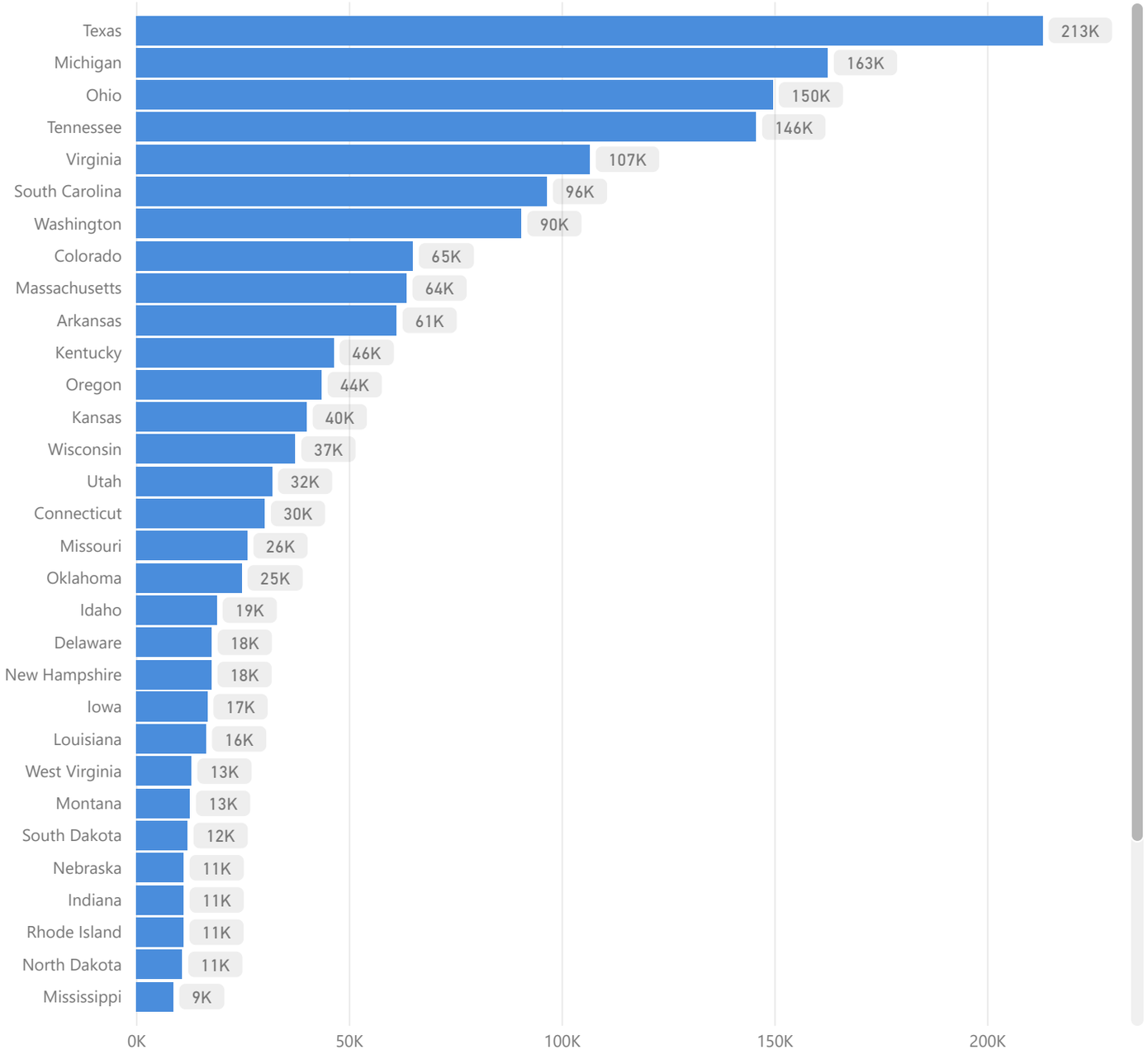
Forecasted Total Offenses by State



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 NIBRS Total [Quantifiable]

1,647,195

Forecasted Total Count

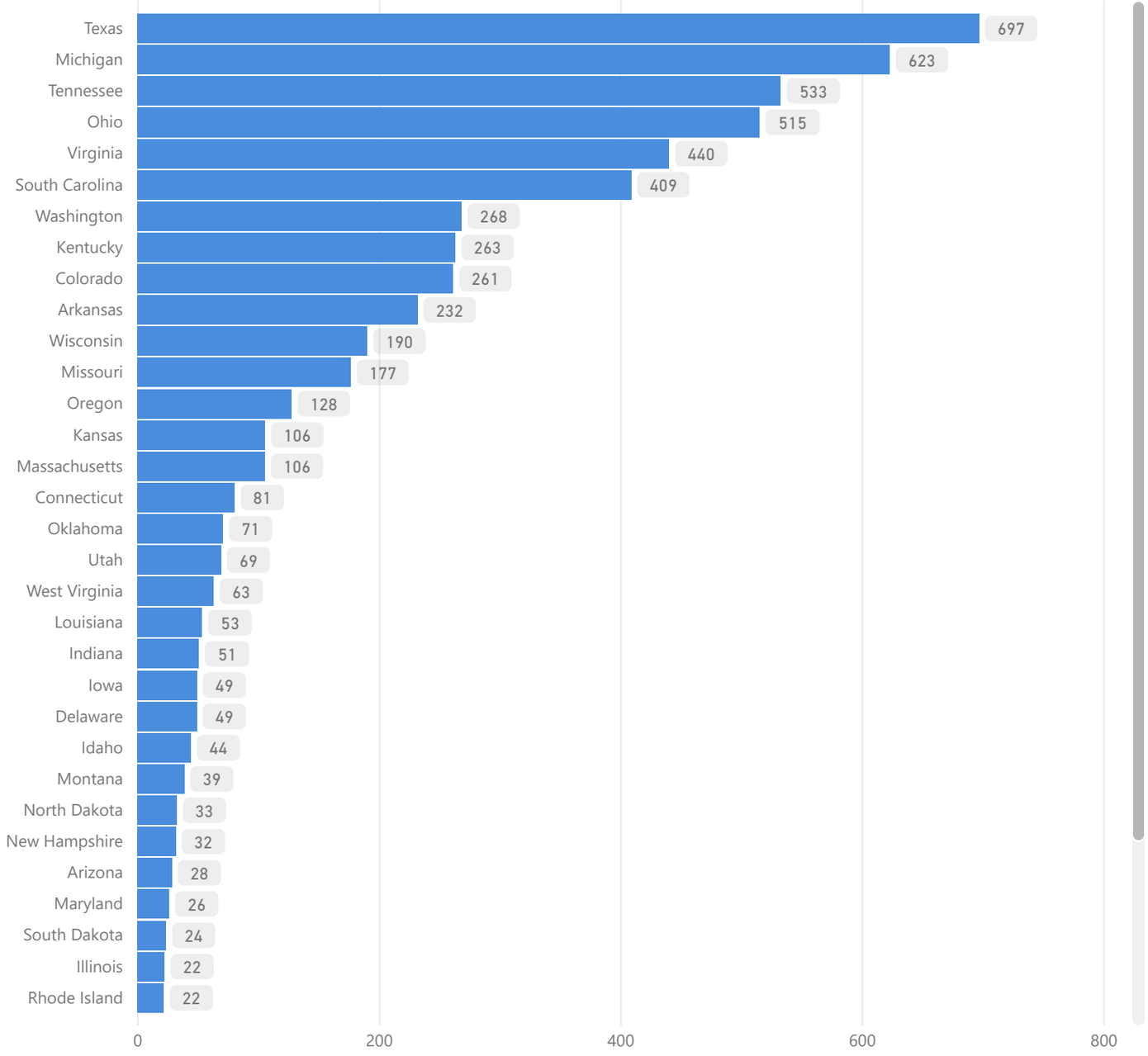
-4.53%

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 NIBRS Homicide [Quantifiable]

5781

Forecasted Homicide Count

-13.96%

Forecasting Error

86.04%

Forecasting Accuracy

ERROR MAGNITUDE

HIGHER = WORSE

96.58%

Linear regression produced nearly double the error of the autoregressive model.

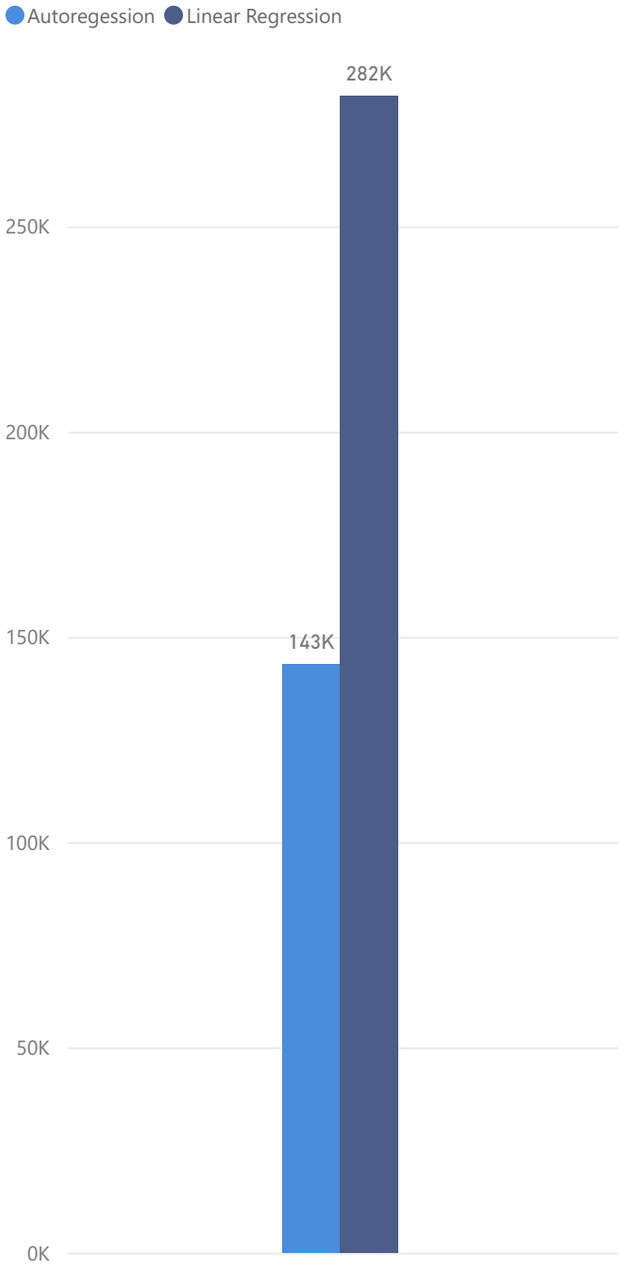
143.35K

Autoregression MAE

281.80K

Linear Regression MAE

Model MAE Forecasting | Total



Forecasting Accuracy | Total

91.69%

Autoregression Model

83.67%

Linear Regression Model

ERROR MAGNITUDE

HIGHER = WORSE

31.82%

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

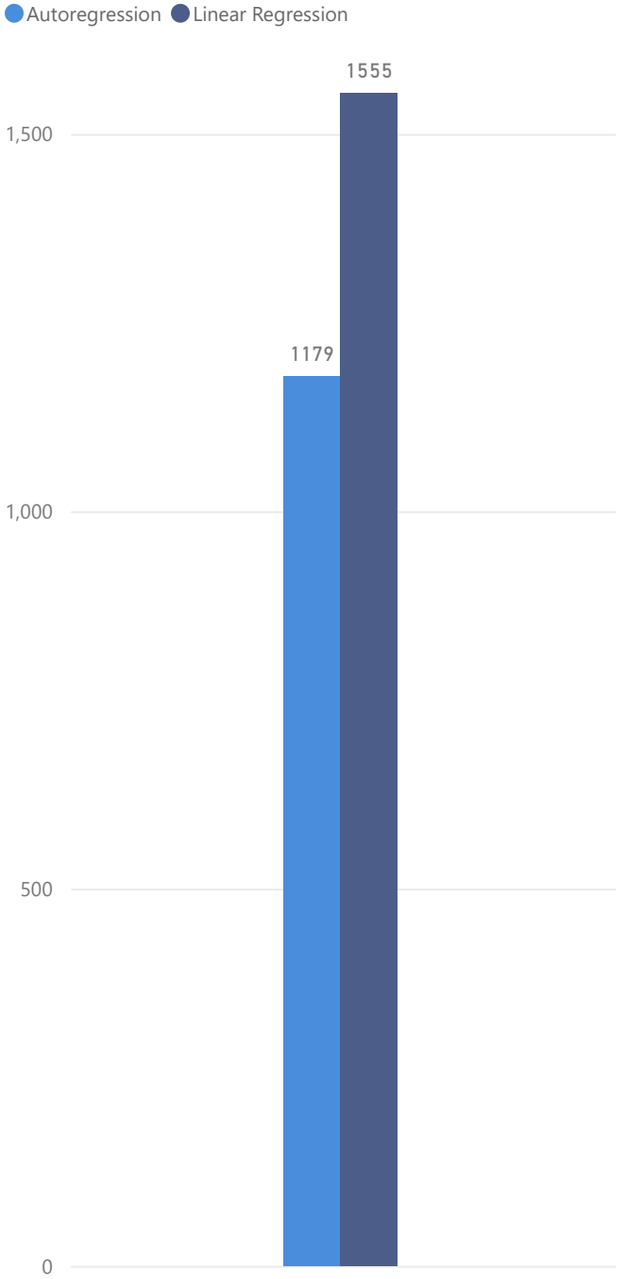
1.18K

Autoregression MAE

1.55K

Linear Regression MAE

Model MAE Forecasting | Homicide



Forecasting Accuracy | Homicide

86.04%

Autoregression Model

76.86%

Linear Regression Model