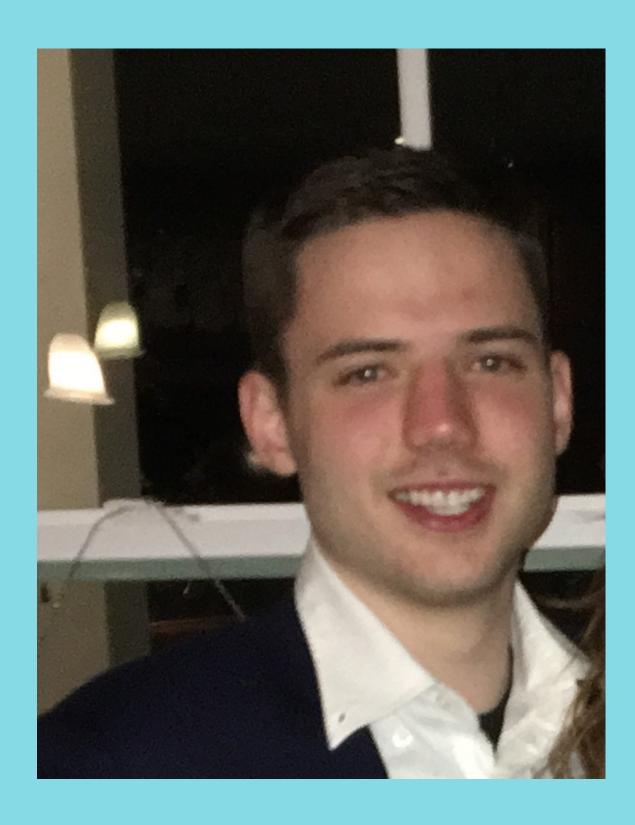


#### Presenter



Emory University, BBA in Finance

Data Science Student, FlatIron School

# Agenda



Stakeholder



Business Problem



Data





Analysis



Recommendations



#### Bottom Line



Modeling Error Reduced by 10%

#### Stakeholder



Stakeholder



Business Problem



Data



Analysis



Recommendations















# CDC(24/7

# Saving Lives, Protecting People













# Tracking Depression

**DIAGNOSTIC CRITERIA** 

1980

COST

\$326 Billion

MENTAL ILLNESS IS RISING

20%



#### Data



Stakeholder



Business Problem



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Recommendations















### World Health Organization (WHO)

GLOBAL BURDEN OF DISEASE 1990-2019





#### Depression Rates in the U.S. Since 1990

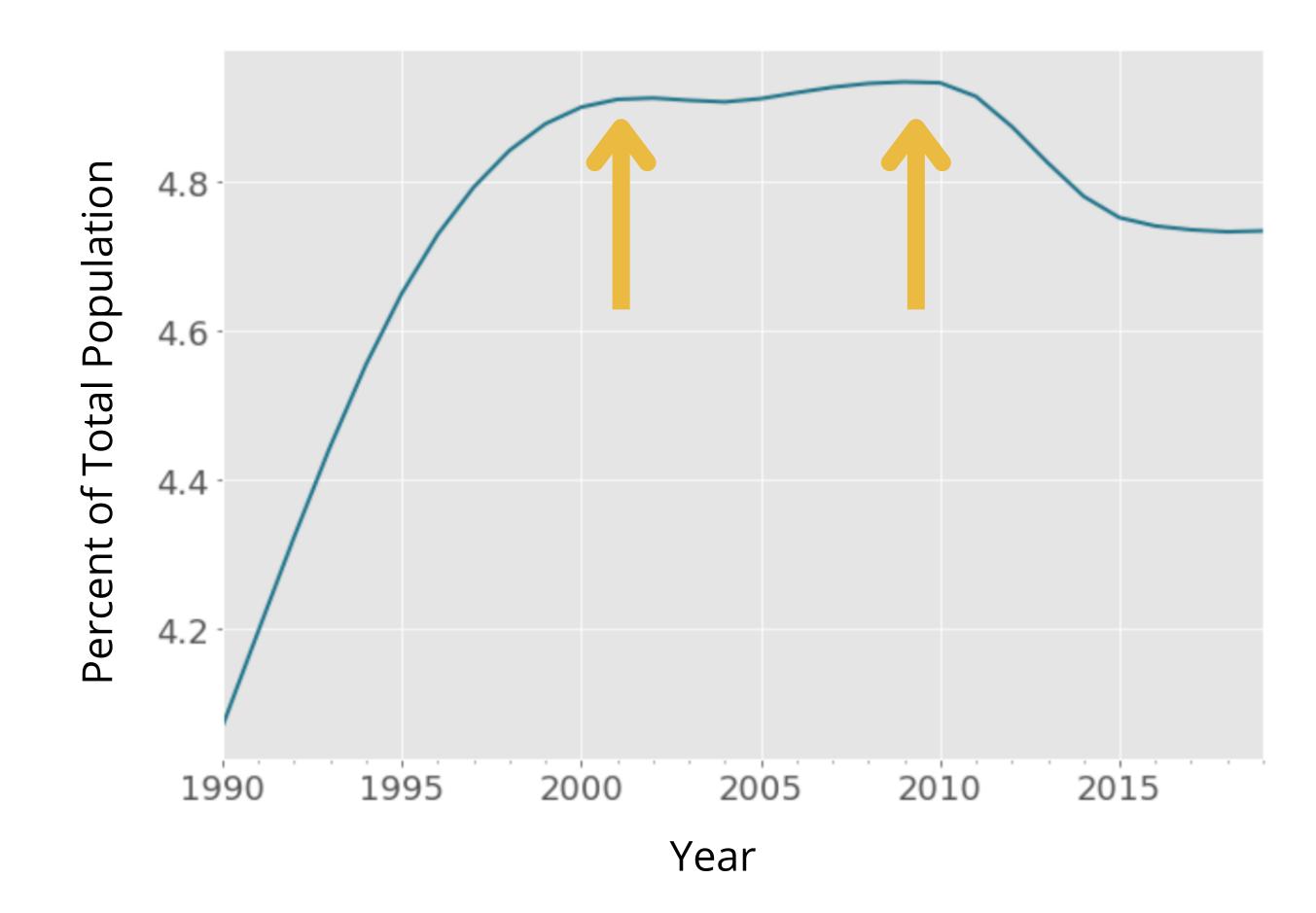












# Analysis



Stakeholder



Business Problem



Data



Analysis



Recommendations















## SARIMA, Predicting the Future

Past Values (2 Years)

Trend (1 Year)

Seasonality (4 Years)







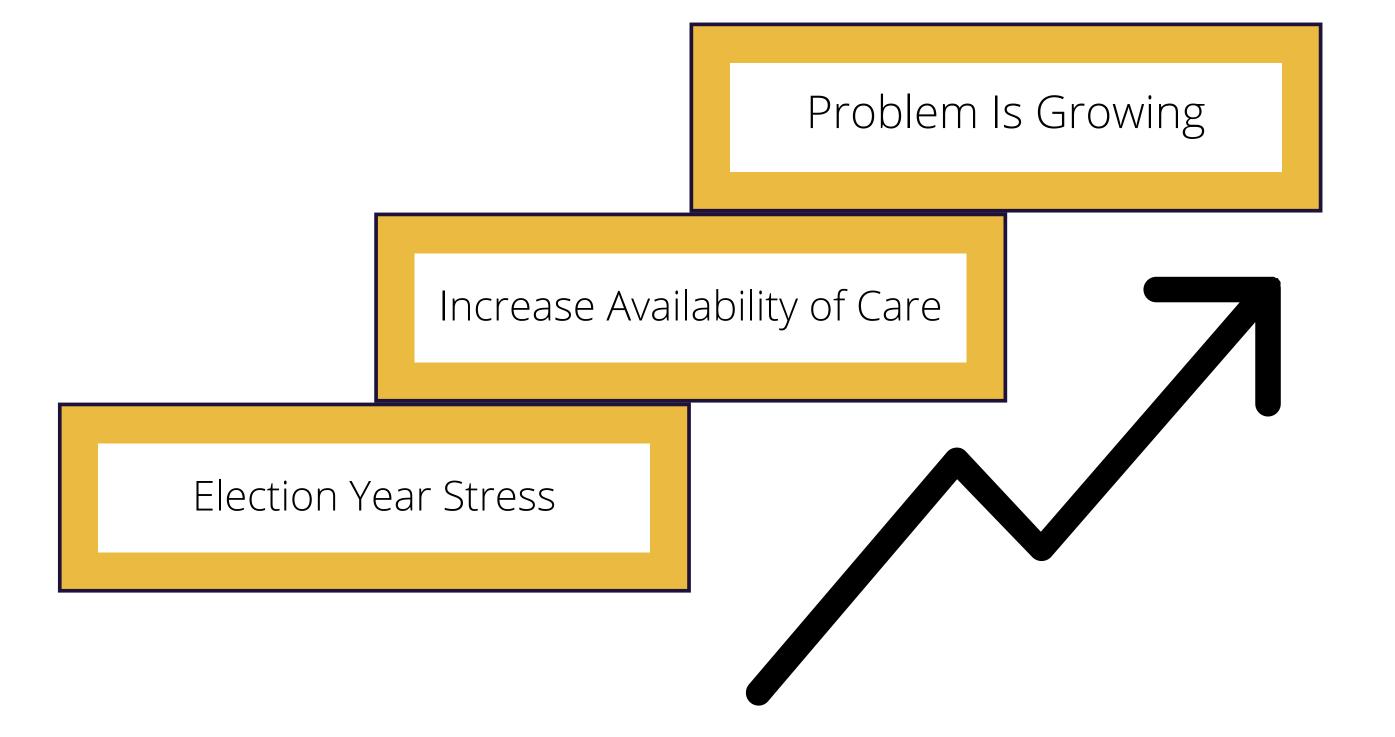








#### Recommendations







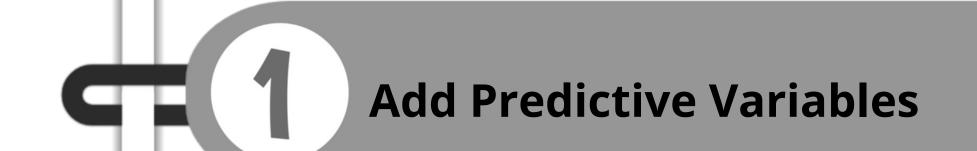








### Next Steps



Differences Between Age Groups and Gender

Analyze Disability Adjusted Life Years (DALY)



#### Questions

Thank Many



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LinkedIn: LinkedIn.com/in/John-Bruemmer



