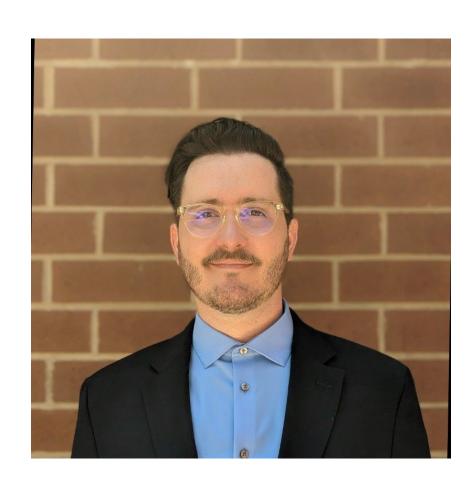


Meet our team



Sean Harris
GitHub Lead
LinkedIn



Morgan Goode
Tech Lead
LinkedIn



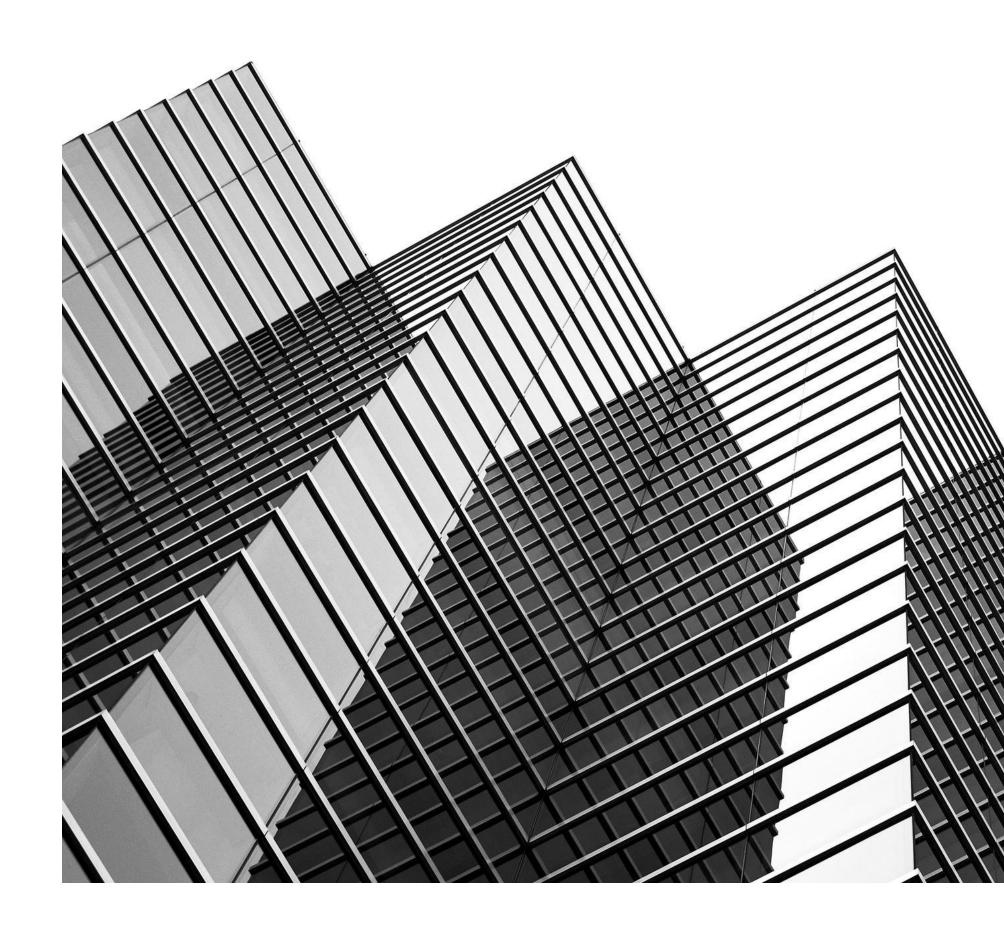
Jimmy McLaughlin
Presentation Lead
LinkedIn

What we will be discussing today



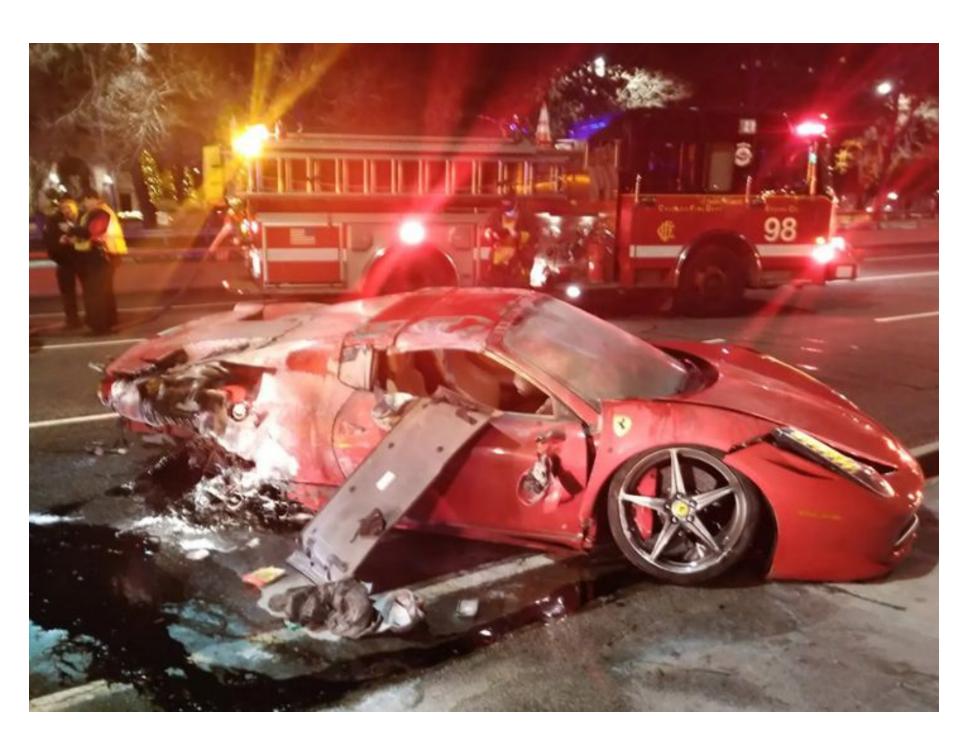
Business problem

What impact does being under the influence have on a person's odds of dying in a car crash?



Bottom Line

Odds of fatalities/severe injuries are **13%** higher with an impaired driver.





Data & Limitations

SOURCE

Chicago Data Portal

DATASETS

Crashes and people involved in crashes-filtered to 2018 and after

SIZE

7.7k crashes, 13.3K people

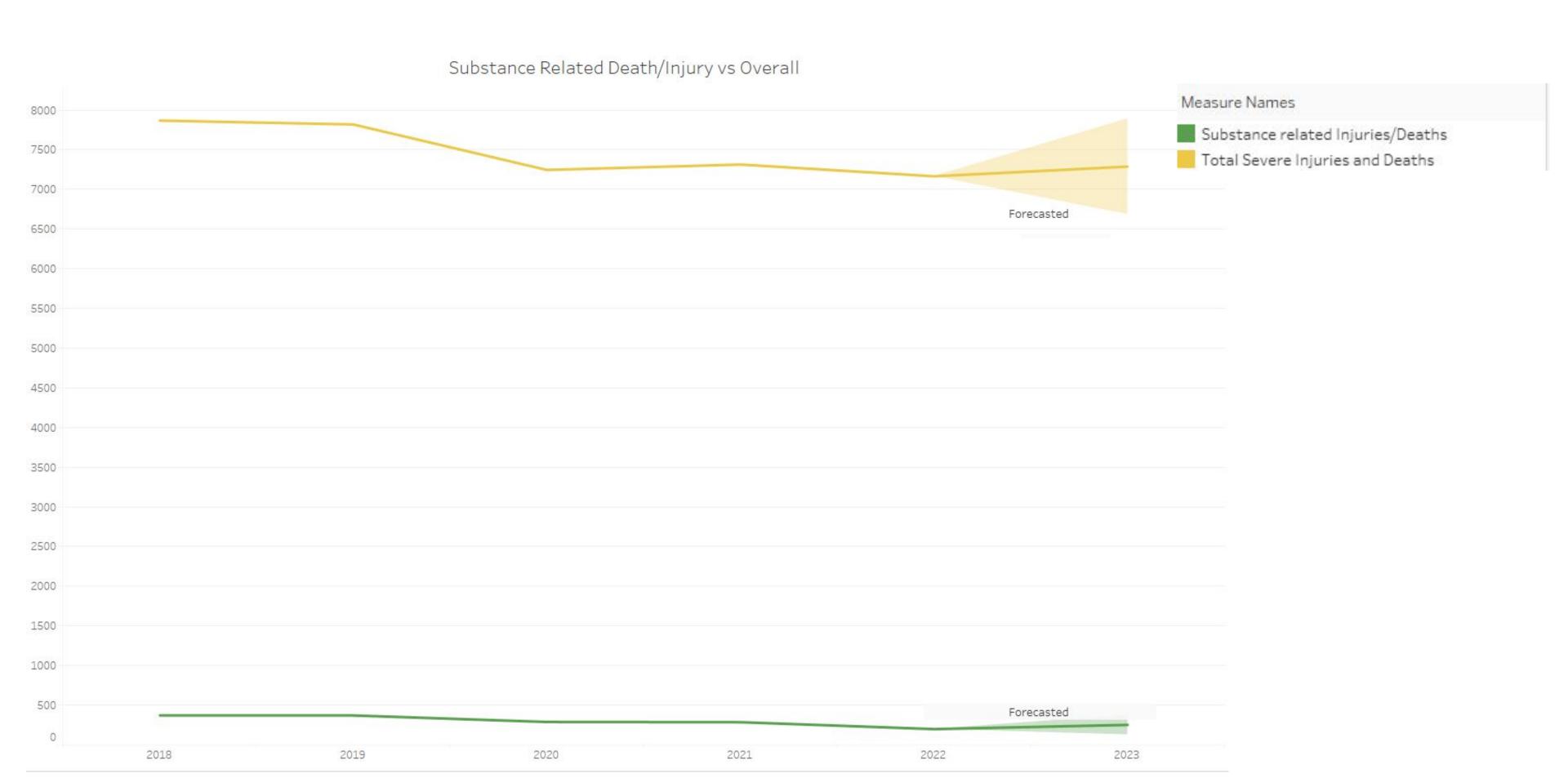
LIMITATIONS

Officer reported data, subject to interpretation and human error

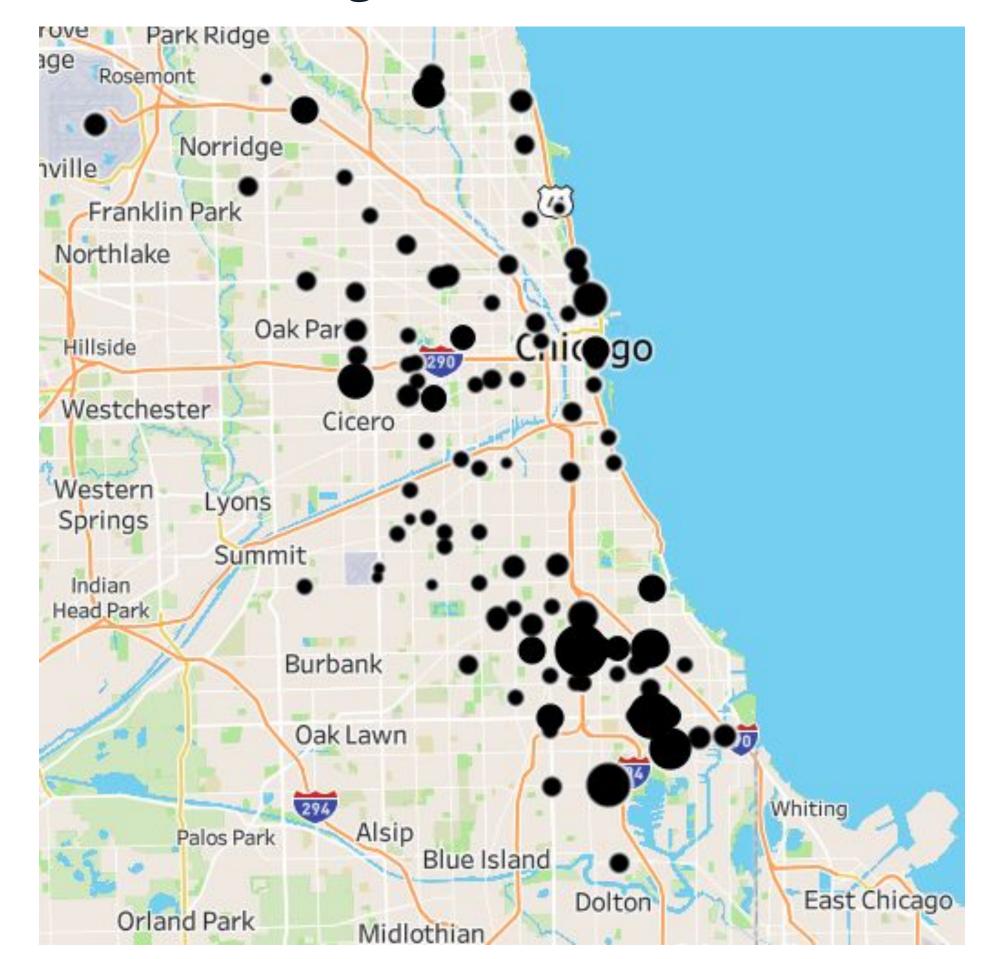


Visualizing crash data

Crash deaths have risen over the last few years...but alcohol related deaths haven't



Crash fatalities across Chicago where driver was under the influence



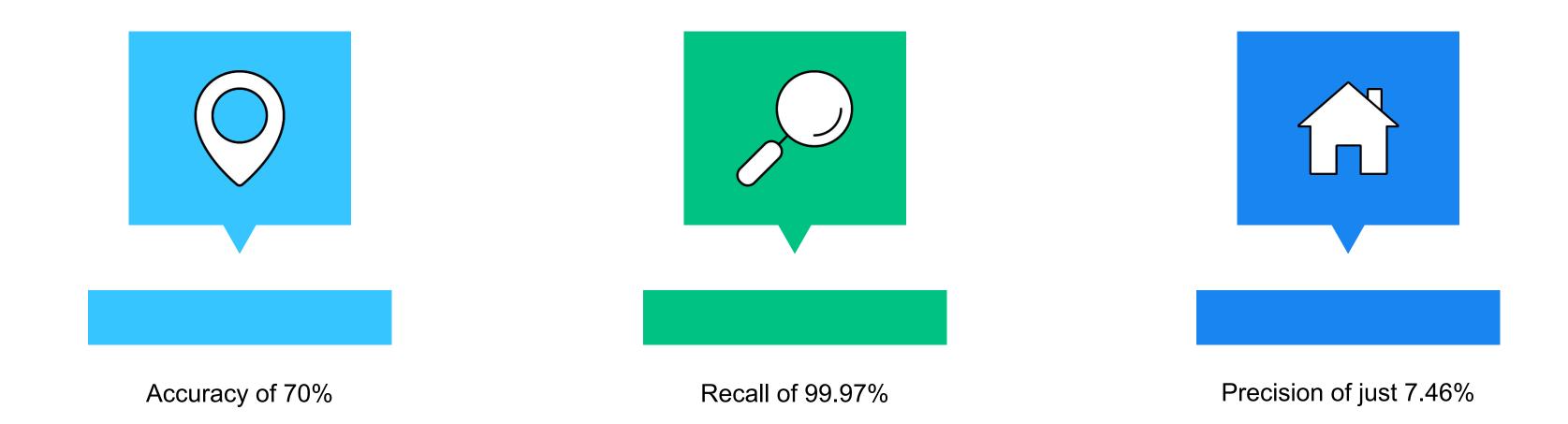
Driving under the influence is one of the deadliest crash causes

Highest death rates by primary accident cause Prim Contribut.. = Physical Condition of Driver Exceeding Authorized Speed Limit Disregarding Traffic Signals Under the Influence of Alcohol/Drugs Opertaing Vehicle in Reckless Manner 0.019 0.021 0.022 0.001 0.009 0.002 0.003 0.005



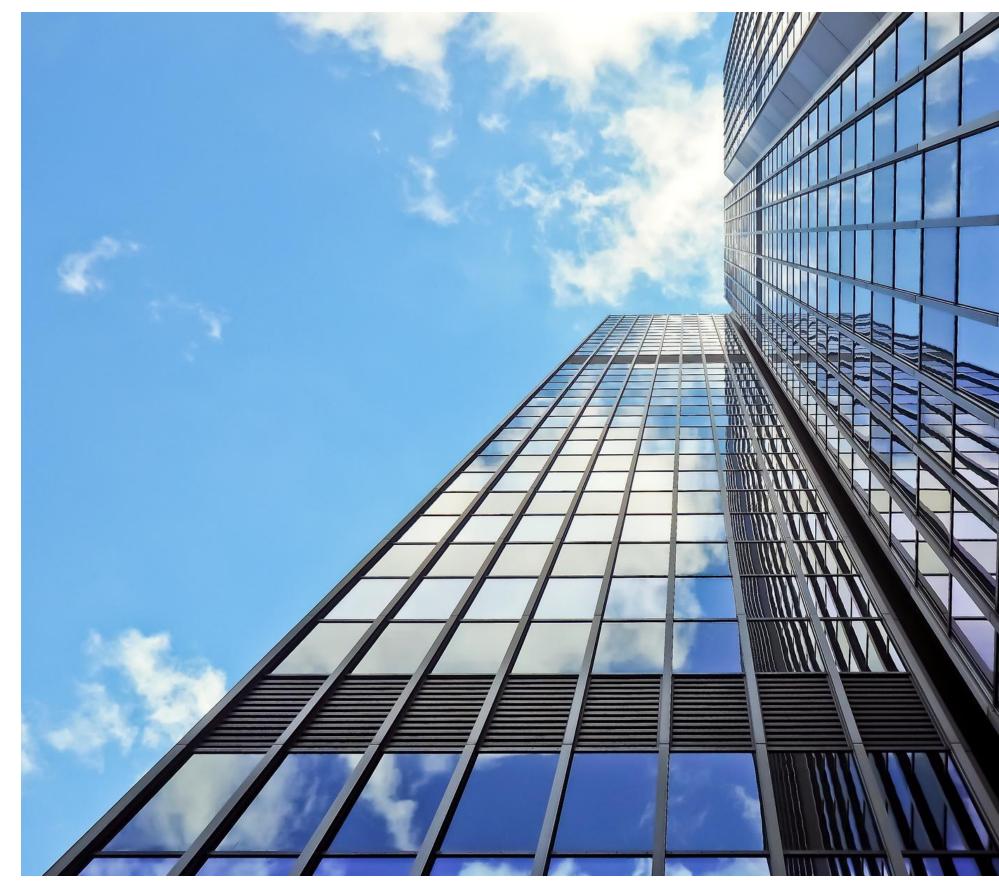
Modeling death and serious injuries

Logistic Regression Model



Findings from models

- An impaired driver has 13% higher odds of fatality or severe injury
- Drivers have 50% less odds of death or severe injury
- Men have 9% higher odds of death or severe injury from a crash than women



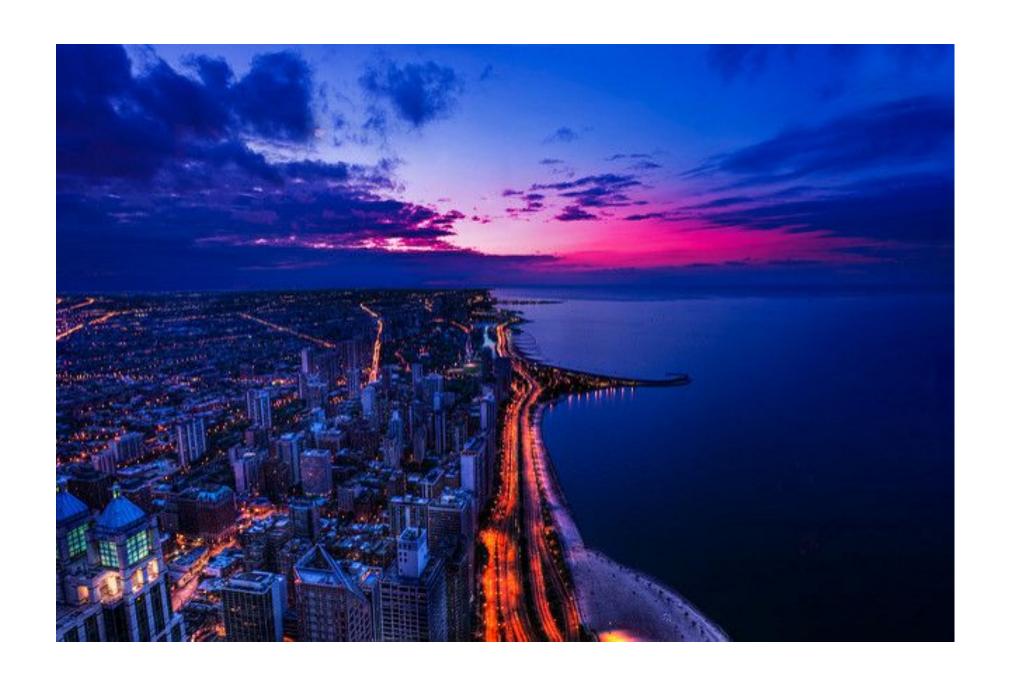
Recommendations

- Consider change to hit and run policy
- Follow up with survivors
- PSA targeted at passengers and cyclists



Next steps

- Investigate high-volume crash areas
- Examine impact of hospital on survival
- Analysis on repeat offenders



Questions?



Sean Harris
GitHub Lead
LinkedIn



Morgan Goode
Tech Lead
LinkedIn



Jimmy McLaughlin
Presentation Lead
LinkedIn



Thanks for Listening

Appendix

Higher Proportion of Injuries for 18-24 year olds

