DATA SCIENTISTS AGAINST DRUNK DRIVING

FATAL ACCIDENTS: PREDICTING SOBRIETY

MODEL
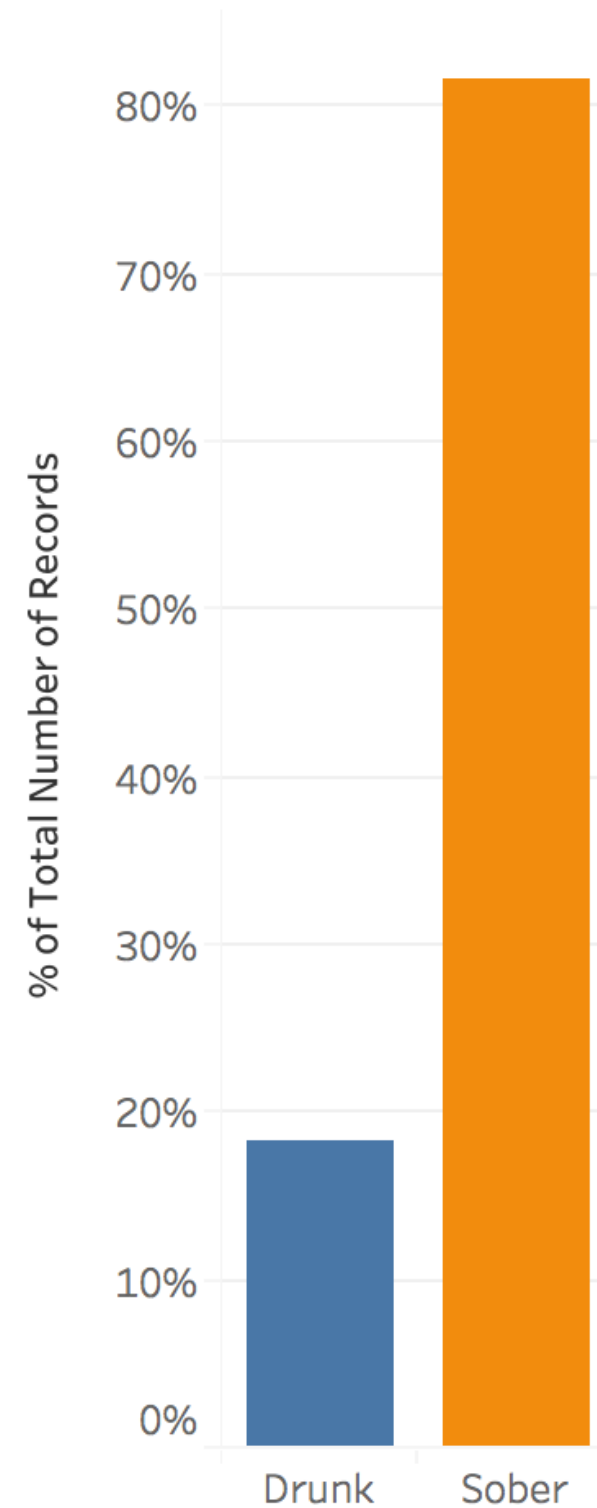
▸ Create model to predict whether alcohol was a factor in a fatal car accident

▸ Model accuracy = 85%

DATA BALANCE

▸ Imbalanced data

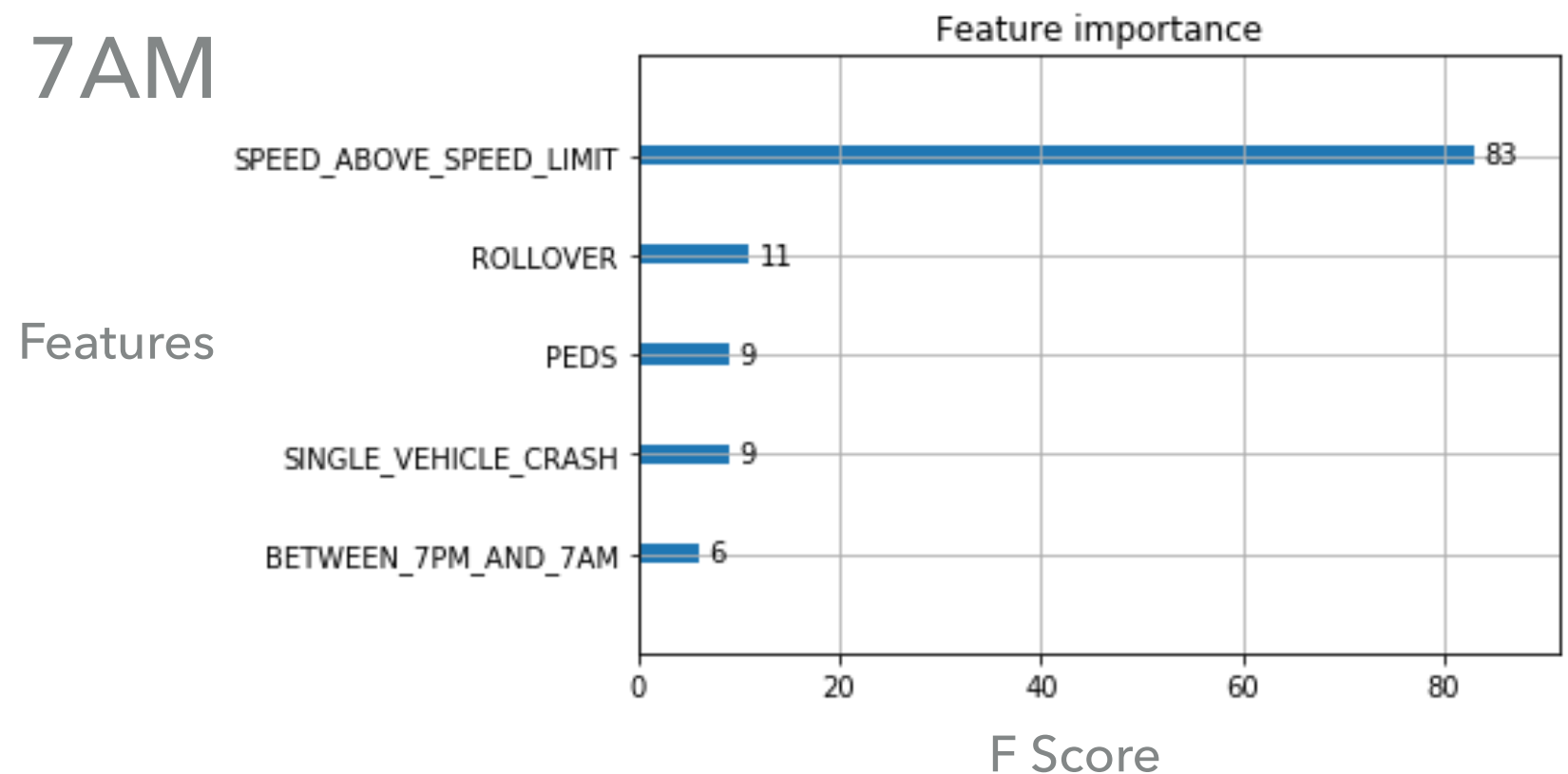Records by Percentage

FEATURES

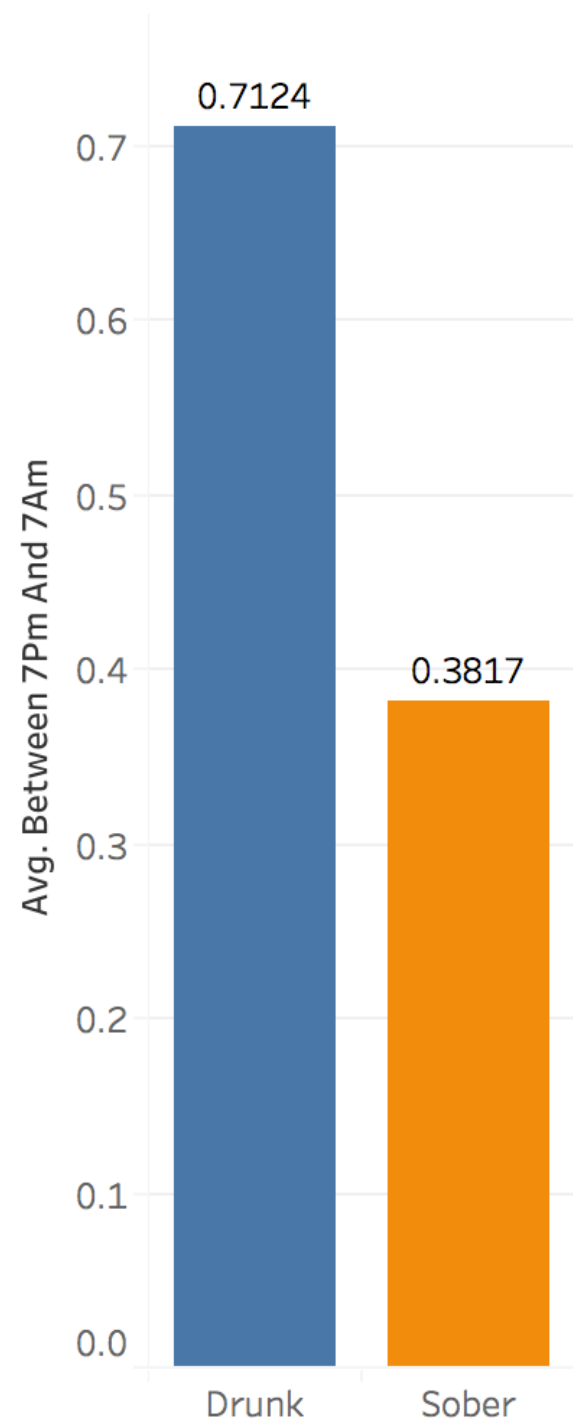▸ Speed Above Speed Limit

▸ Rollover

▸ Pedestrians

▸ Single Vehicle Crash
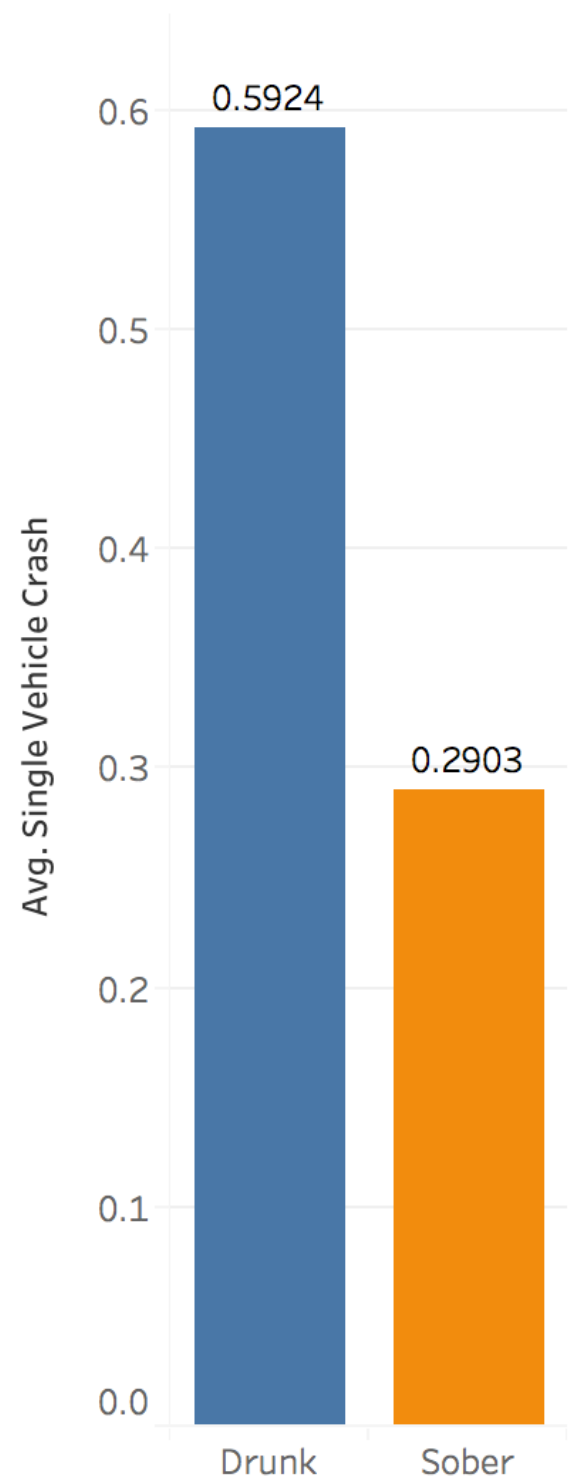
▸ Between 7PM and 7AM
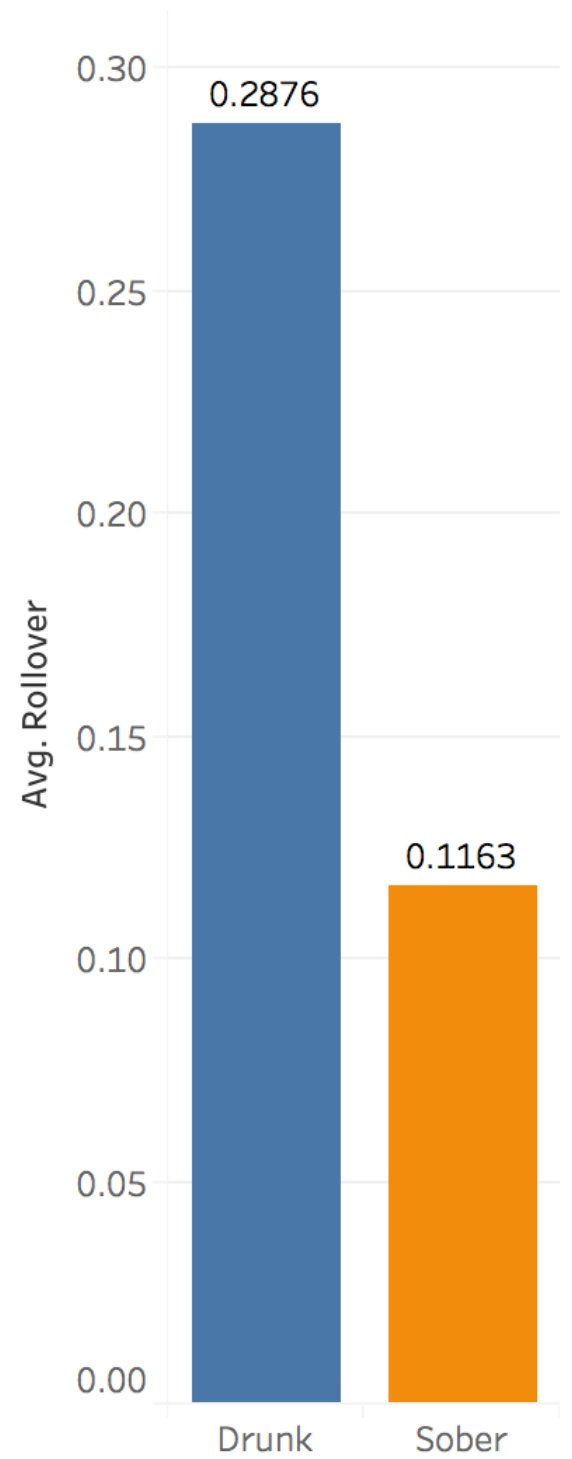
PROPORTIONAL DIFFERENCES
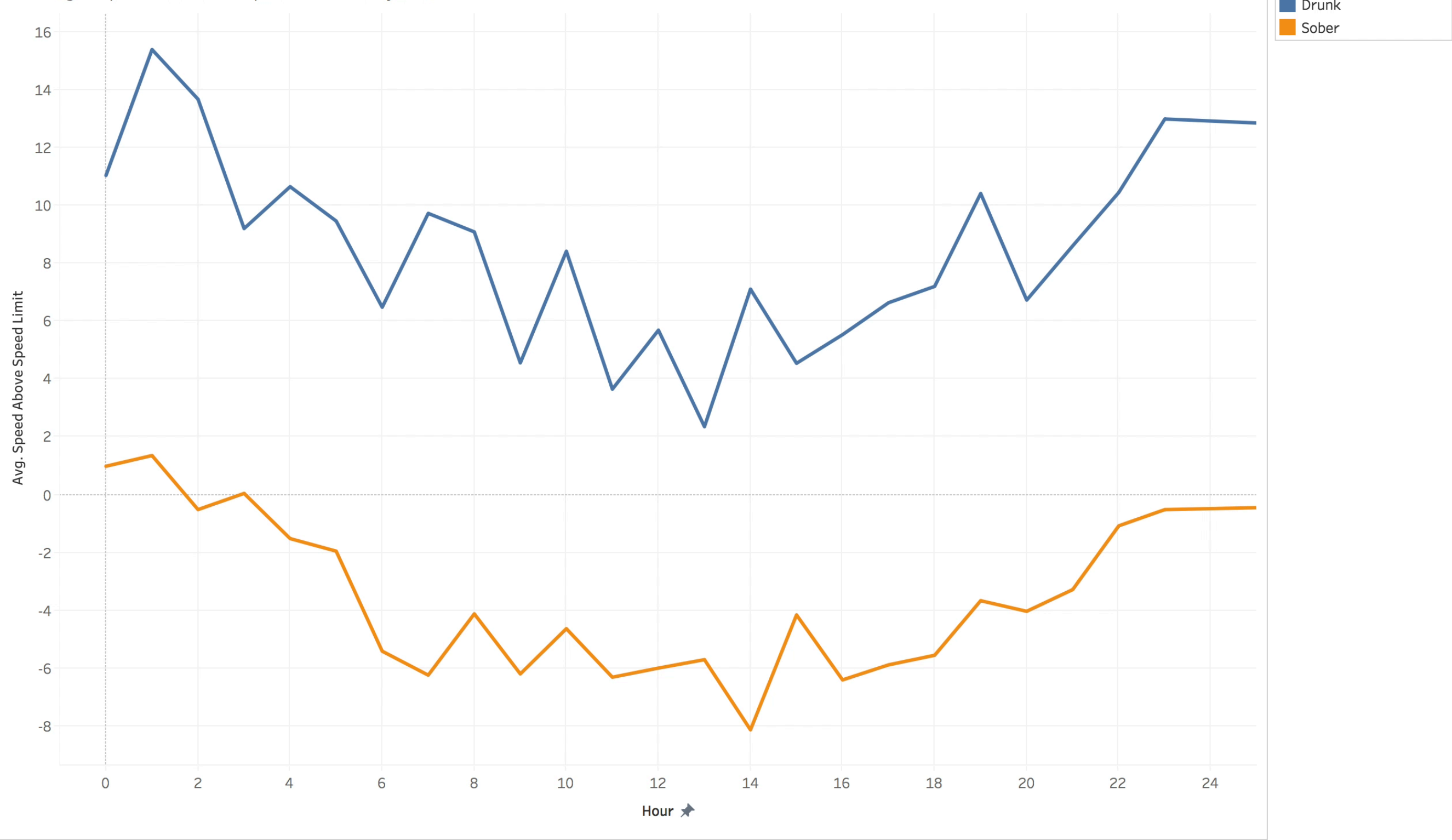
Proportion of Accidents Between 7PM and 7AM

Proportion of Single Vehicle Accidents

Proportion of Rollovers

Average Speed Above Speed Limit by Hour

Drunk Driver
- Drunk
- Sober

Average Speed Above Speed Li... | Records by Percentage | Proportion of Accidents Betwee... | Proportion of Single Vehicle Acci... | Proportion of Rollovers | Dashboard 1

TAKEAWAYS

▸ Fatal accidents involving alcohol involve riskier behaviors

▸ Model can be used in order to assist police in determining if alcohol was a factor after the fact