

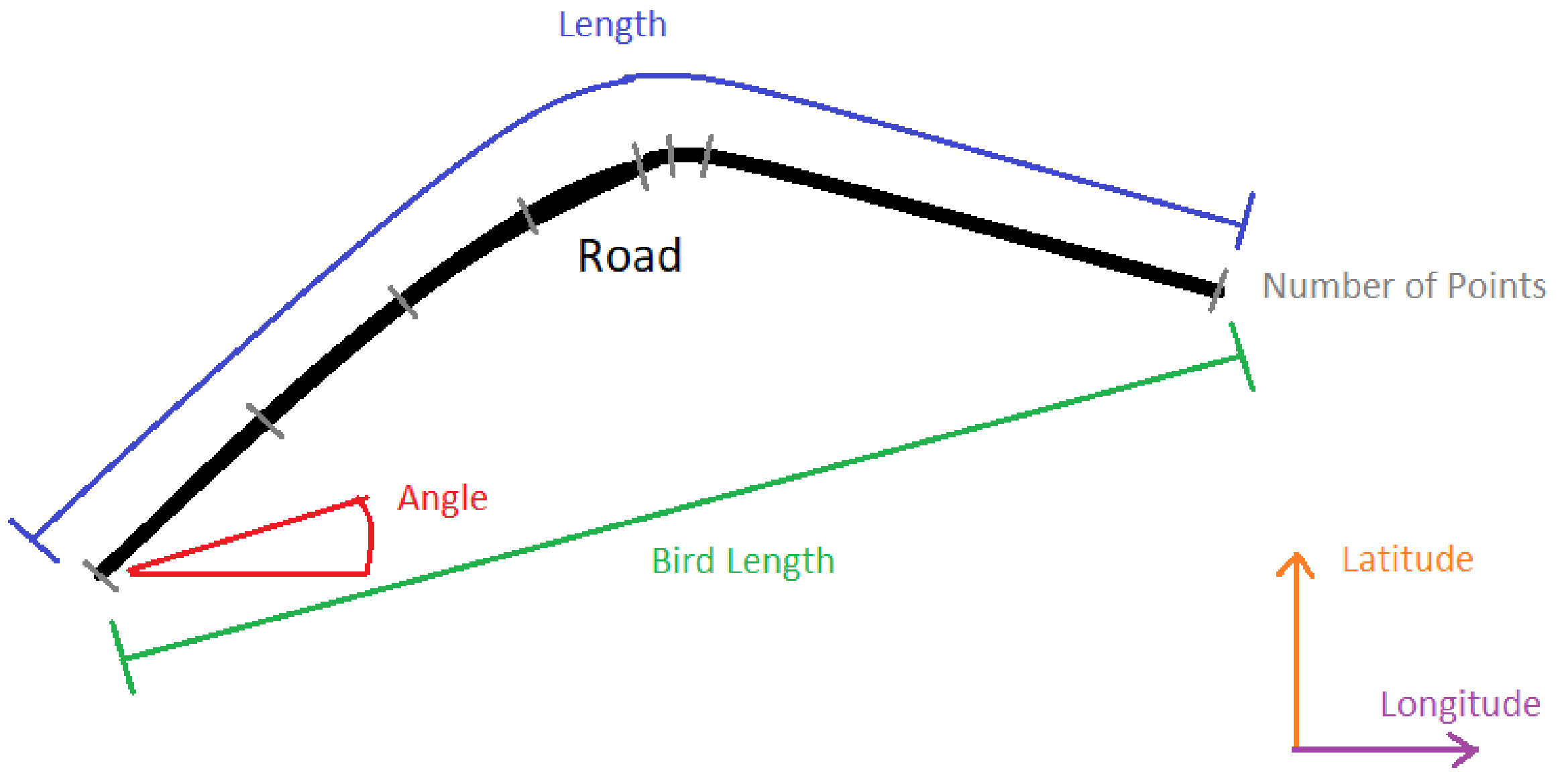
Iowa Road Safety

Karson Sommer









Data Sets & QGIS

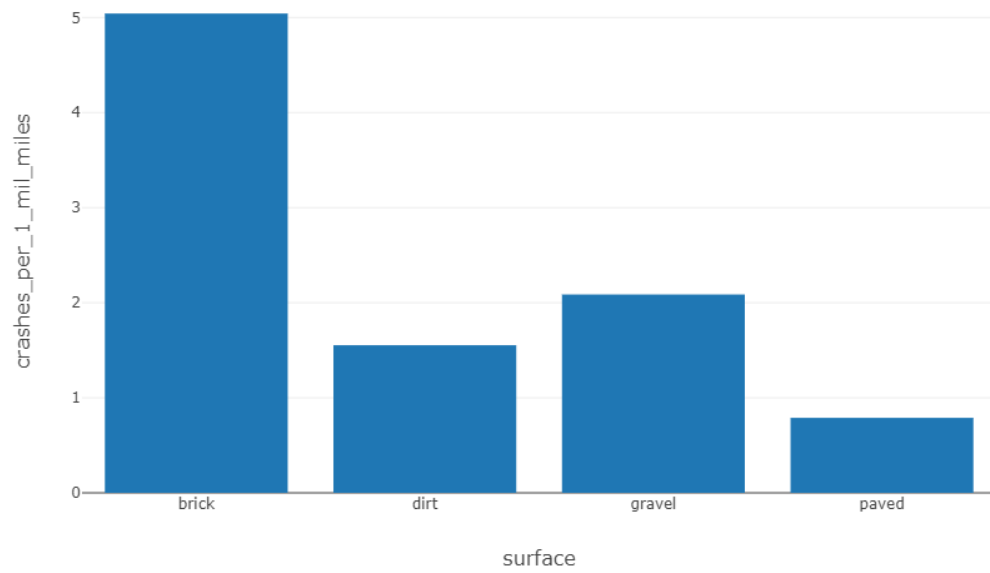
DOT Road Access Management System

- 350k entries
- 109 attributes -> 23 attributes

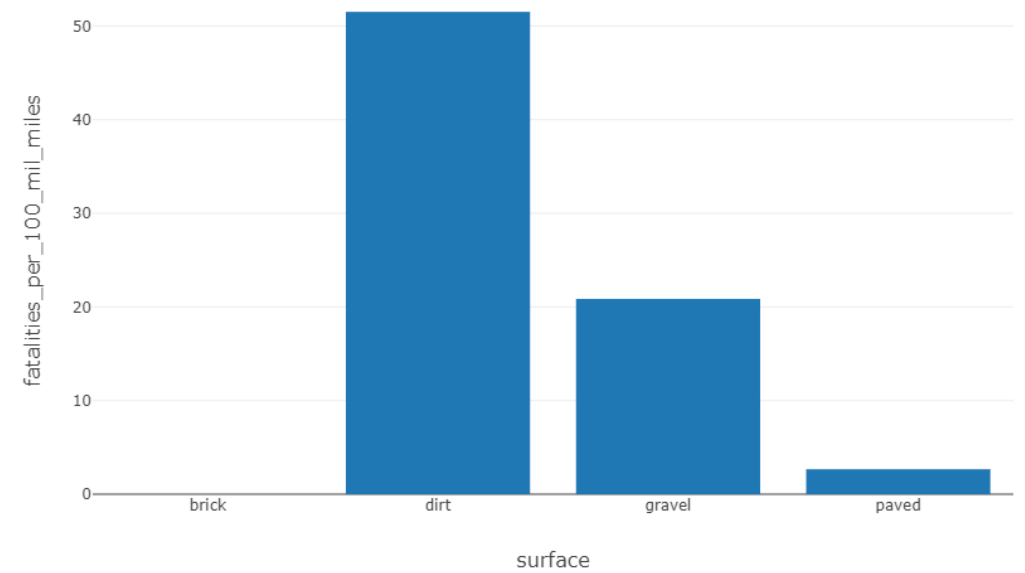
DOT Traffic Safety and Analysis

- 730k entries
- 50 attributes -> 16 attributes

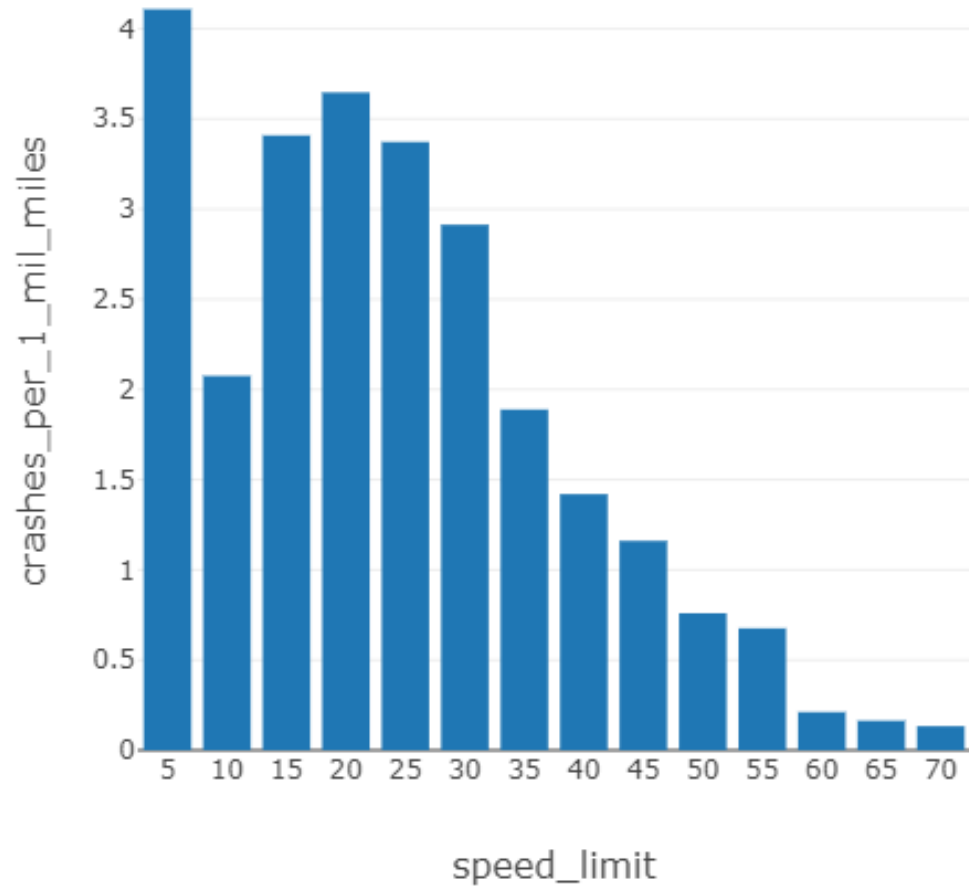
Accidents



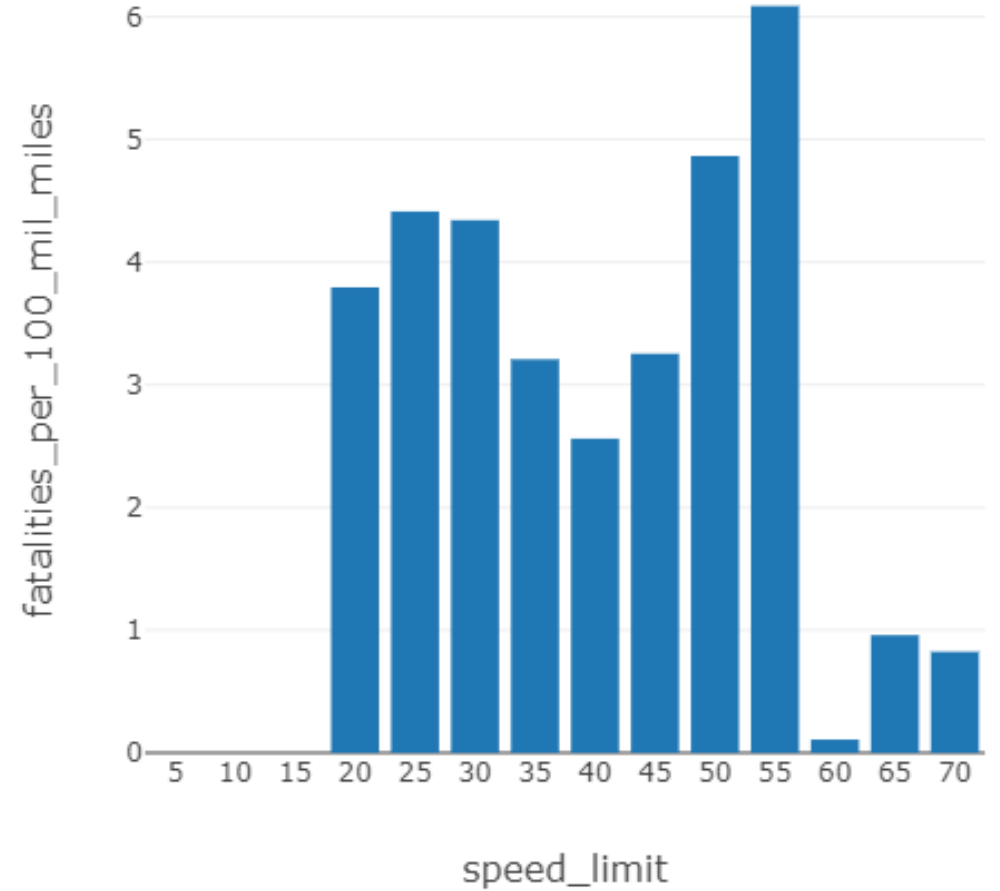
Fatalities



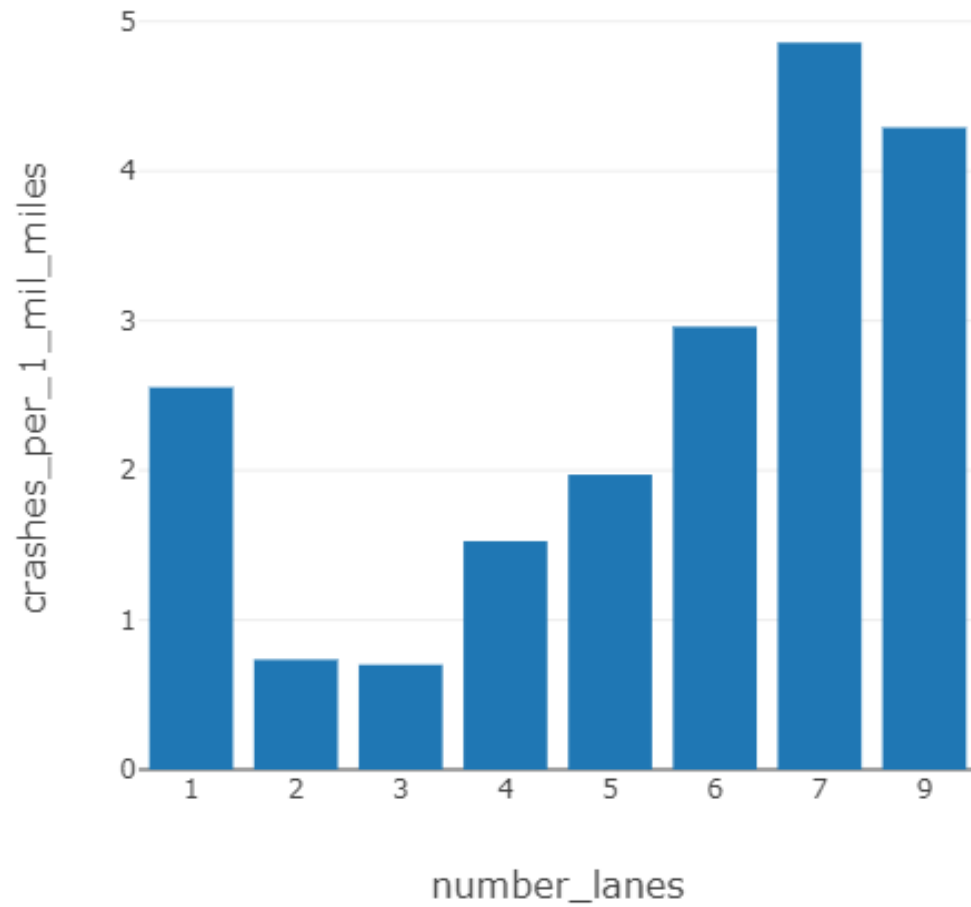
Accidents



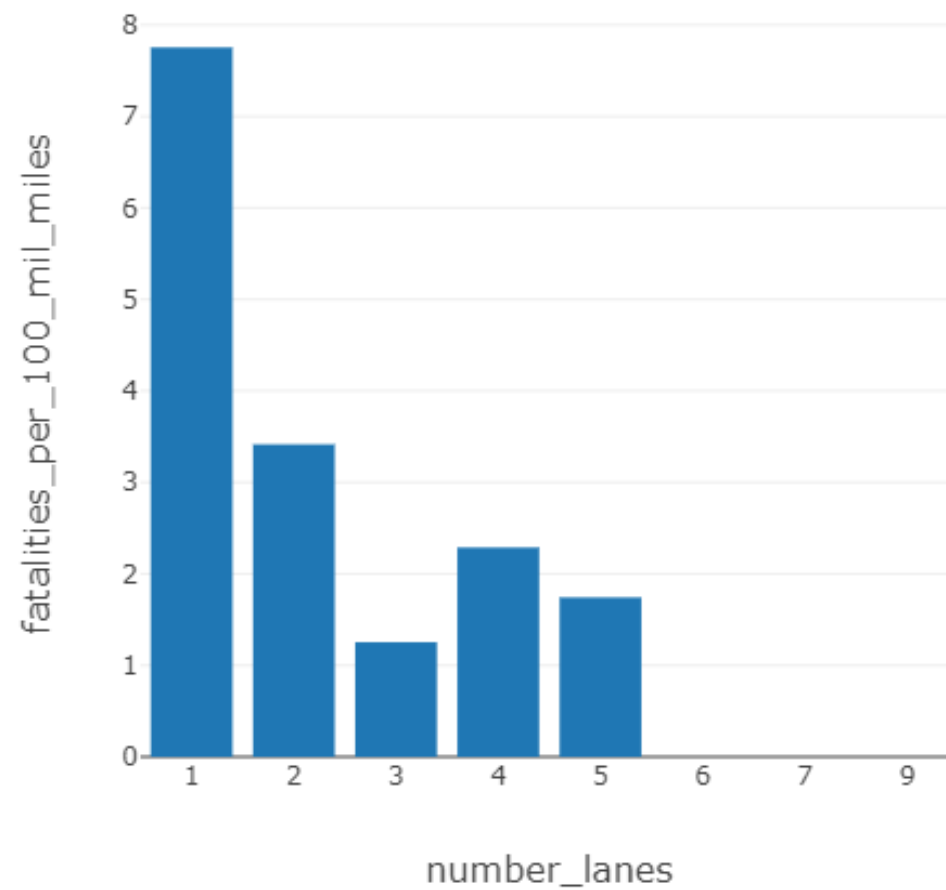
Fatalities



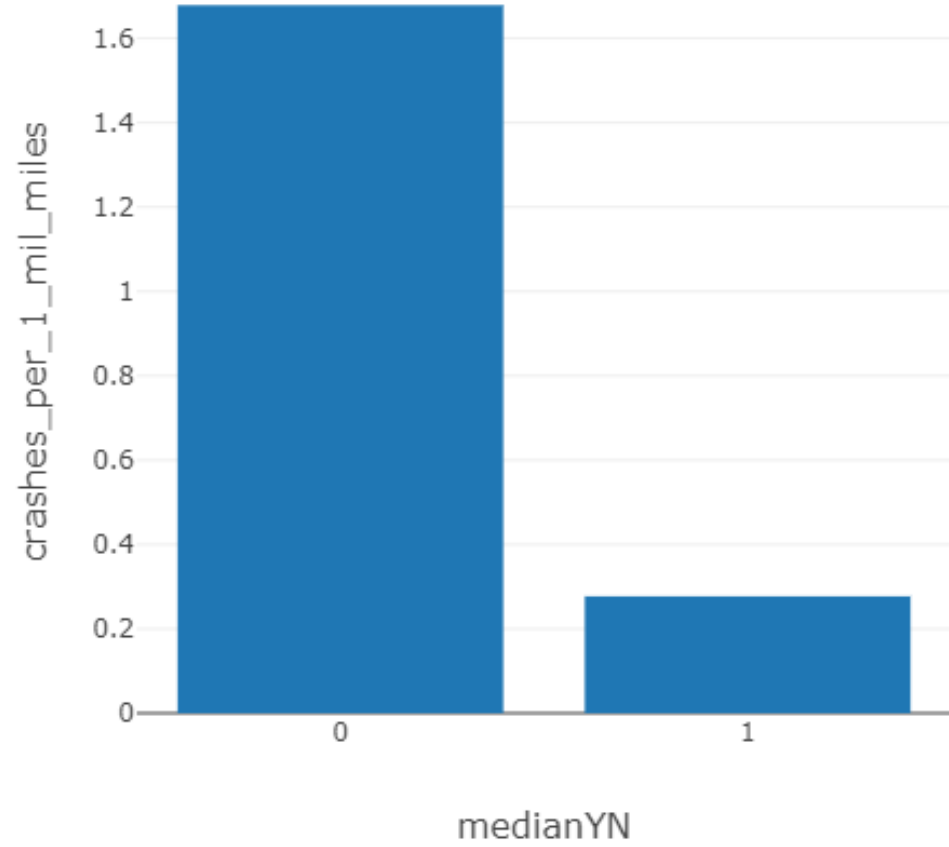
Accidents



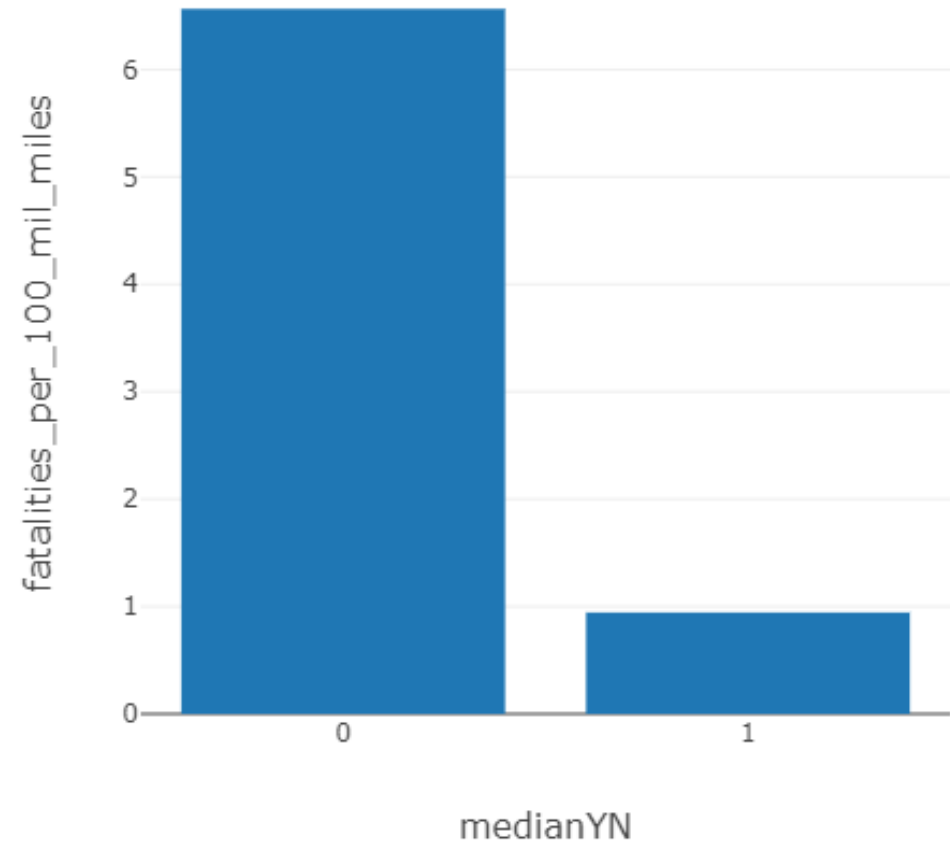
Fatalities



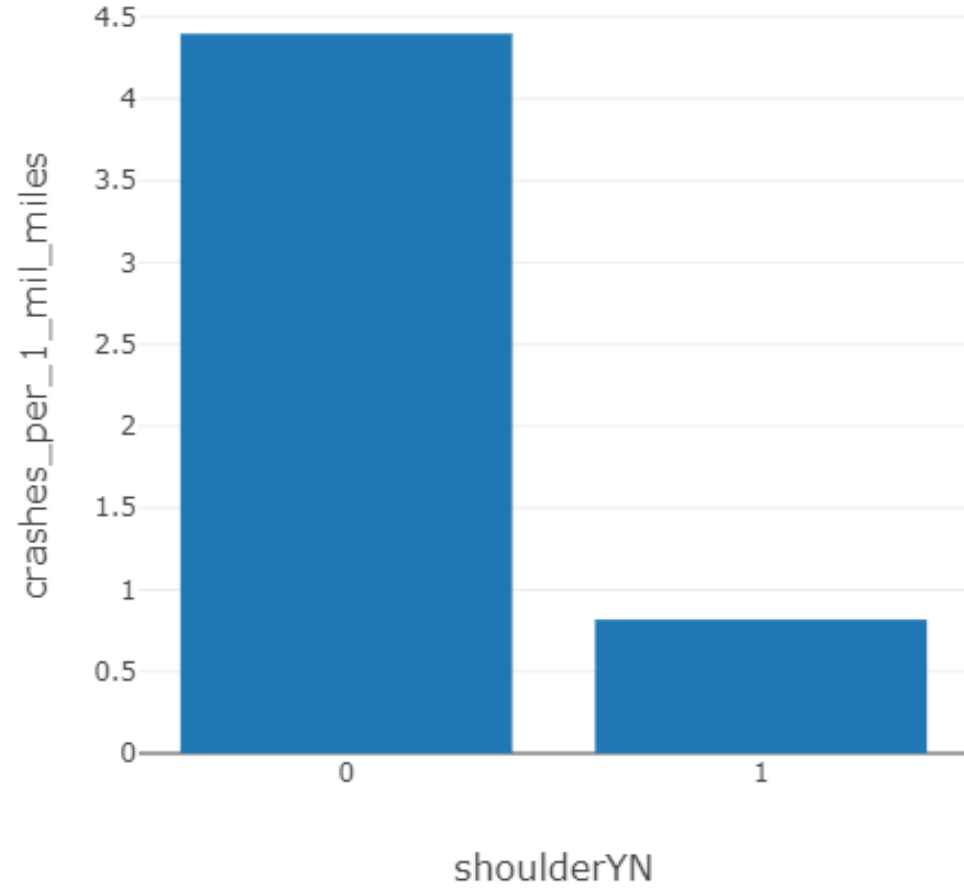
Accidents



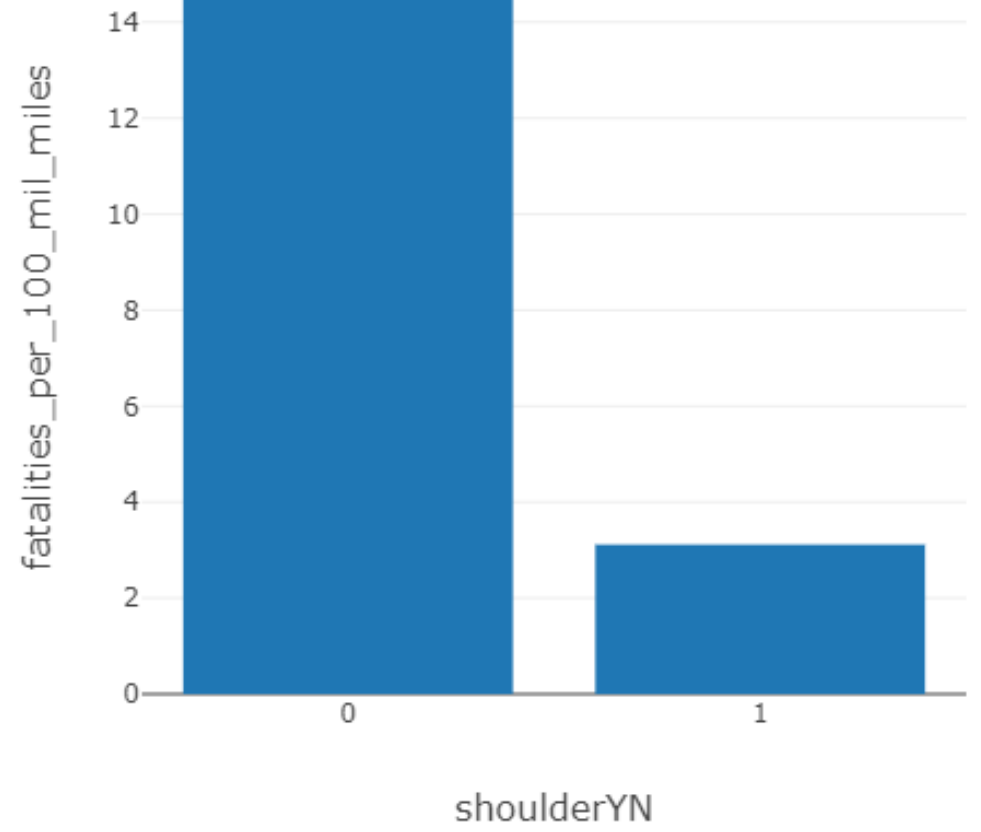
Fatalities



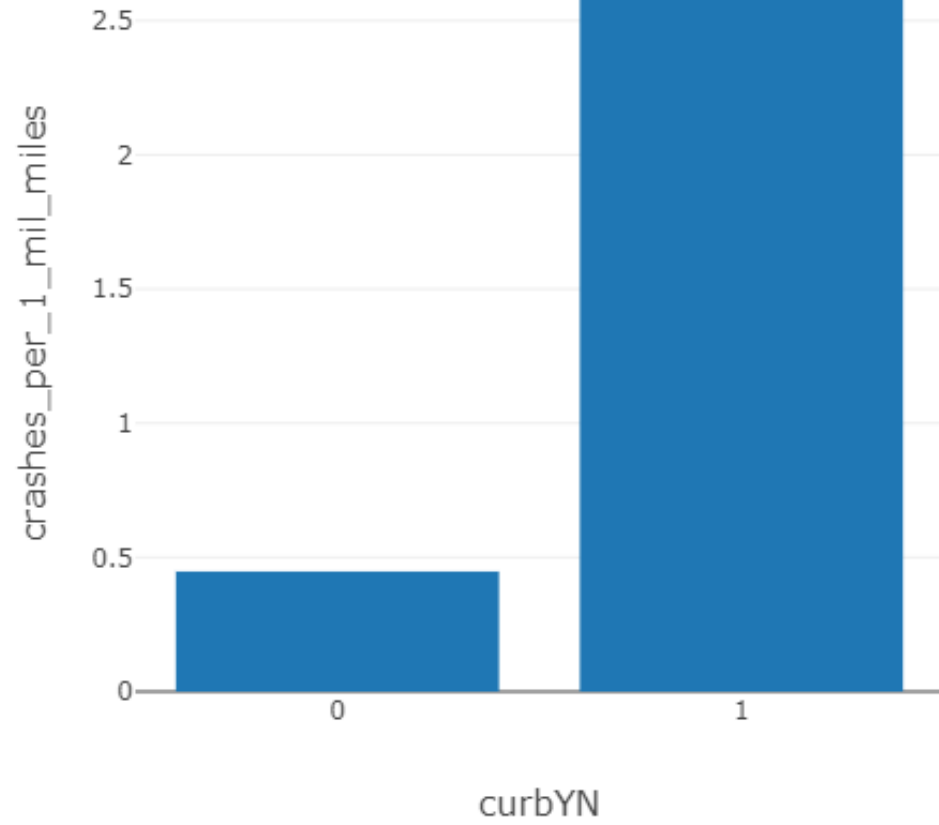
Accidents



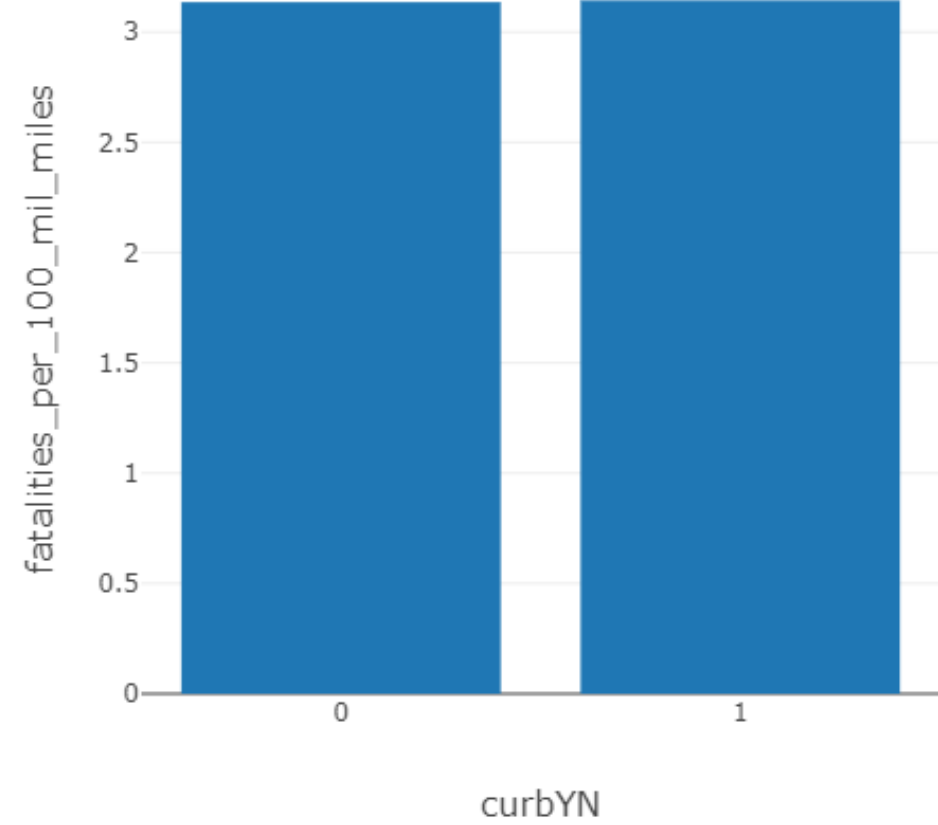
Fatalities



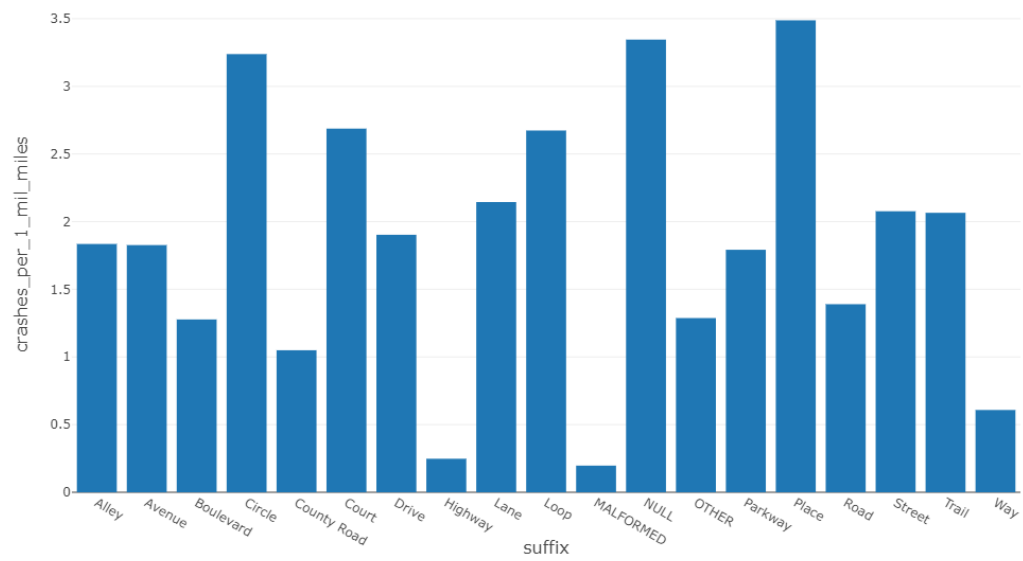
Accidents



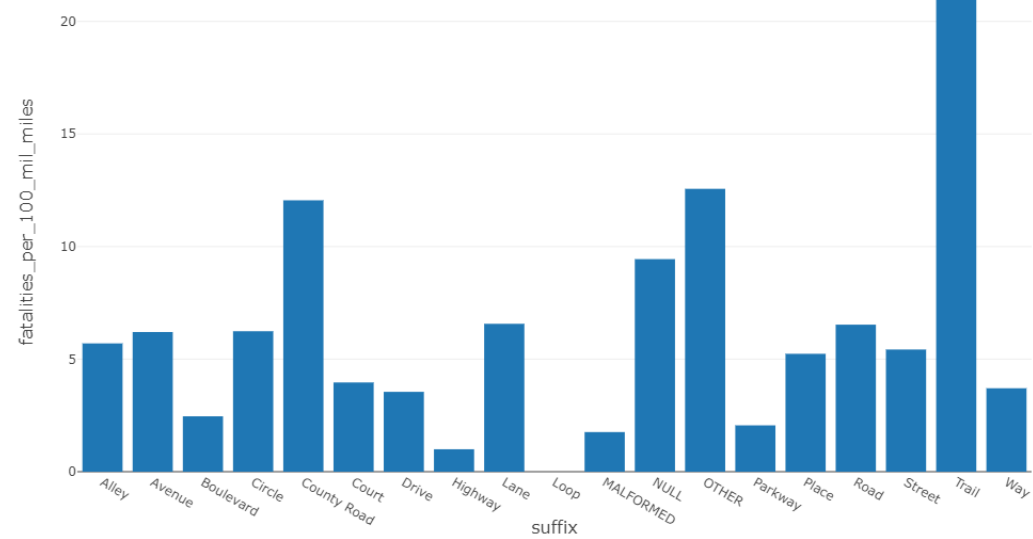
Fatalities

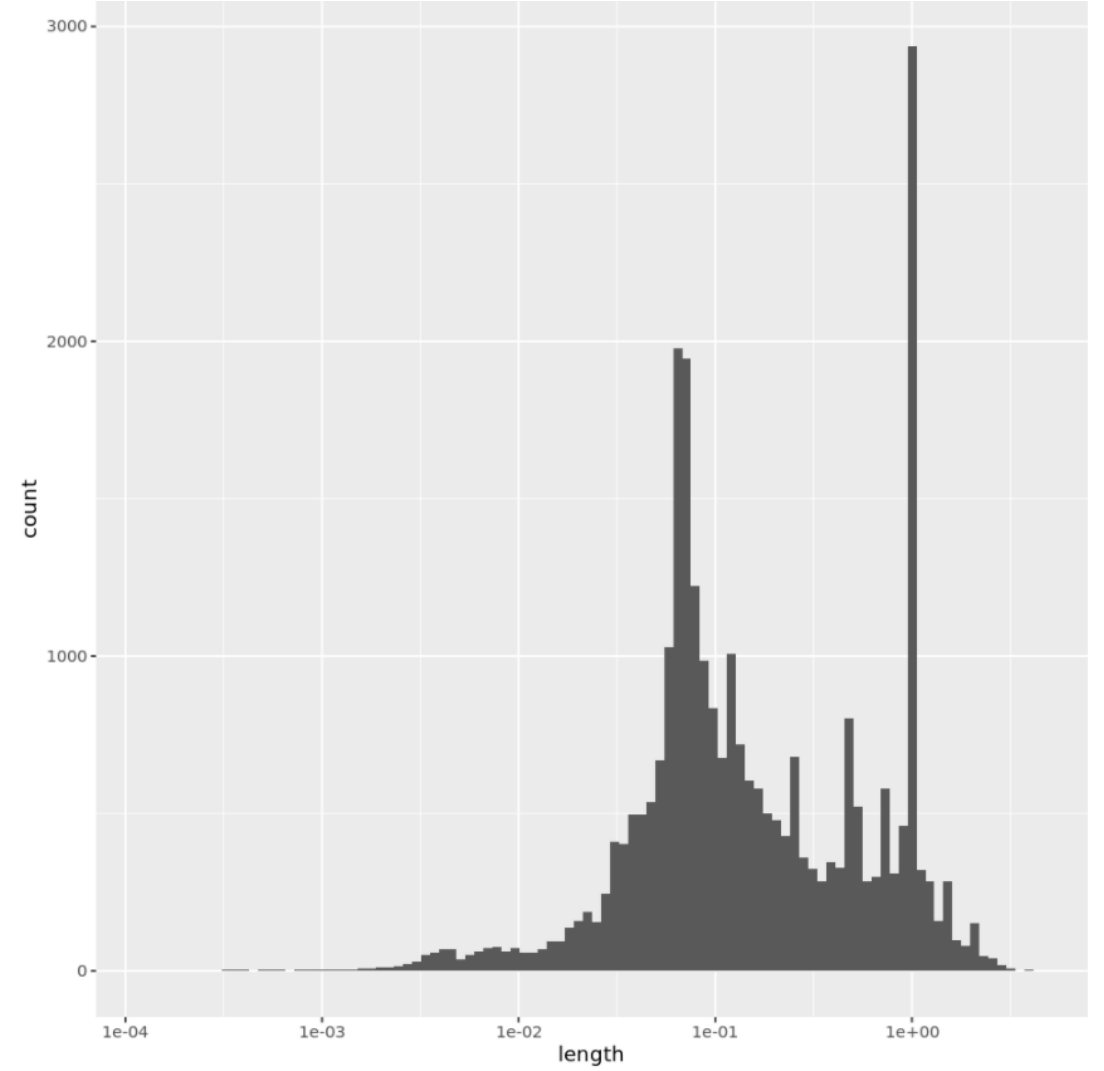
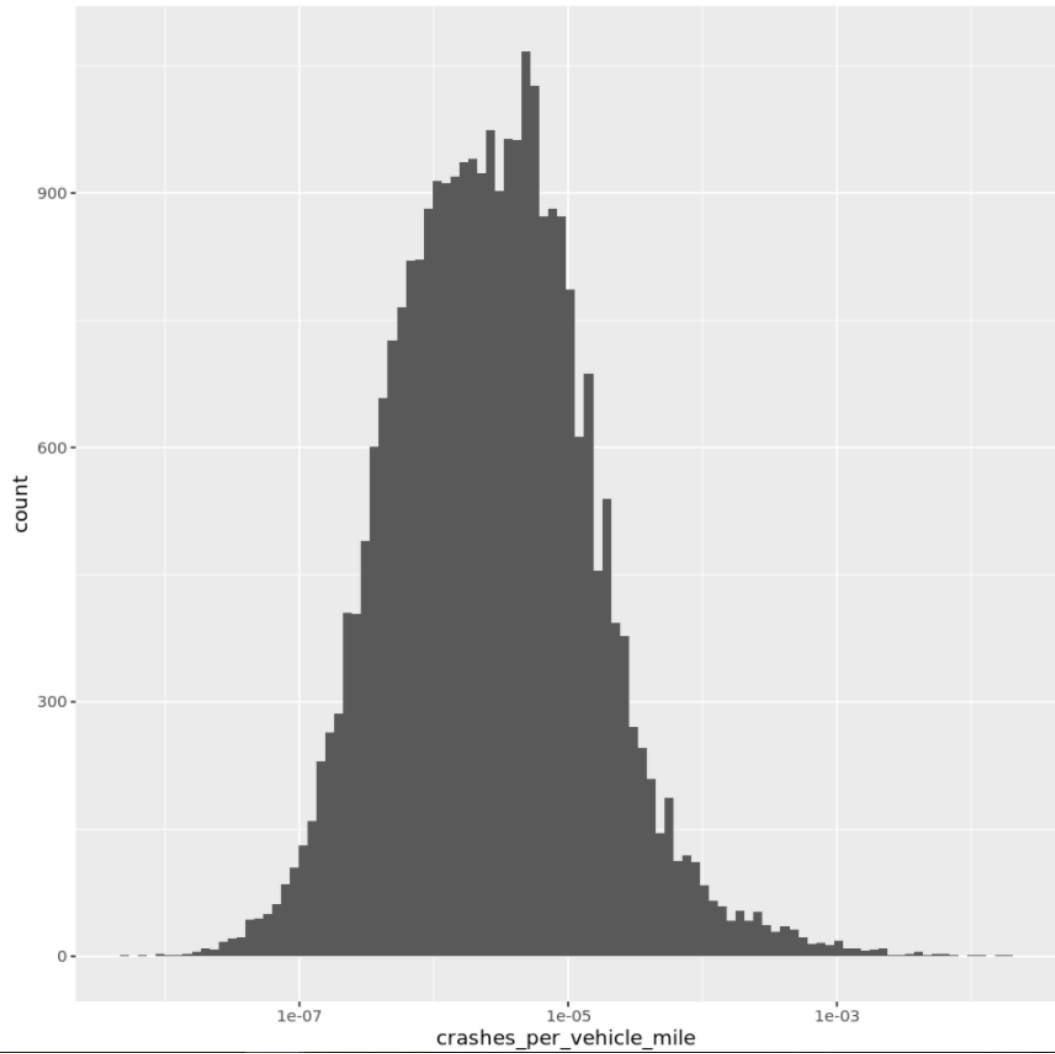


Accidents



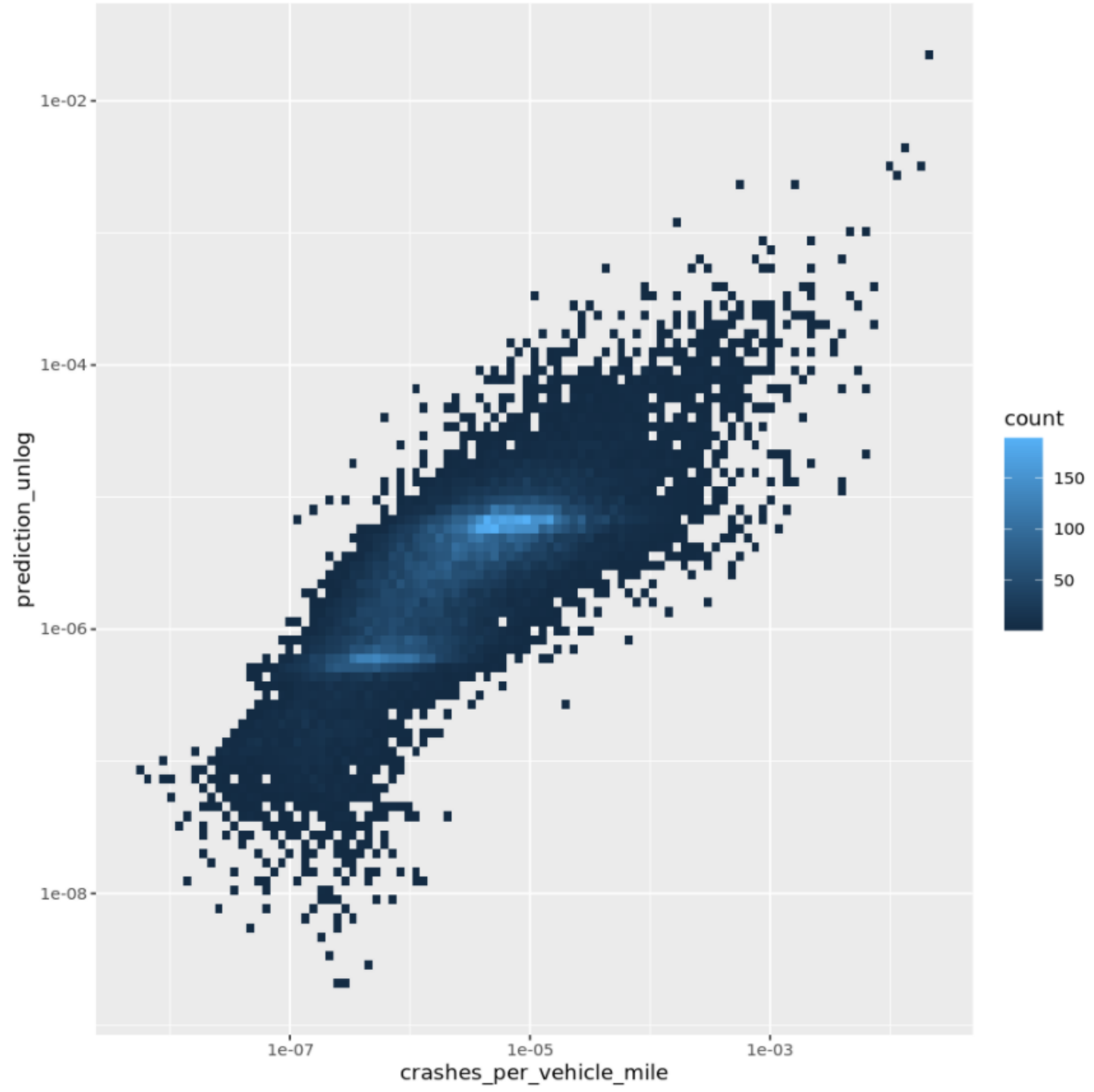
Fatalities





MAPE = 105%

Variable	Std Dev	Weight
Surface_dirtYN		1.54
Surface_gravelYN		1.03
medianYN		-0.407
Surface_bricksYN		0.131
Rumble_stripYN		-0.0755
CurbYN		0.0319
East_westYN		0.00966
Length_log	1.5	-0.879
Speed_limit	15	-0.0109
straightness	0.12	-1.02
AADT	7400	-1.4*10 ⁻⁵
length	0.37	0.223
Number_lanes	0.45	-0.173
Lane_width	3.2	-0.0197
Terrain	0.56	0.0439
longitude	1.6	-0.00839
latitude	0.74	0.00619



Questions

