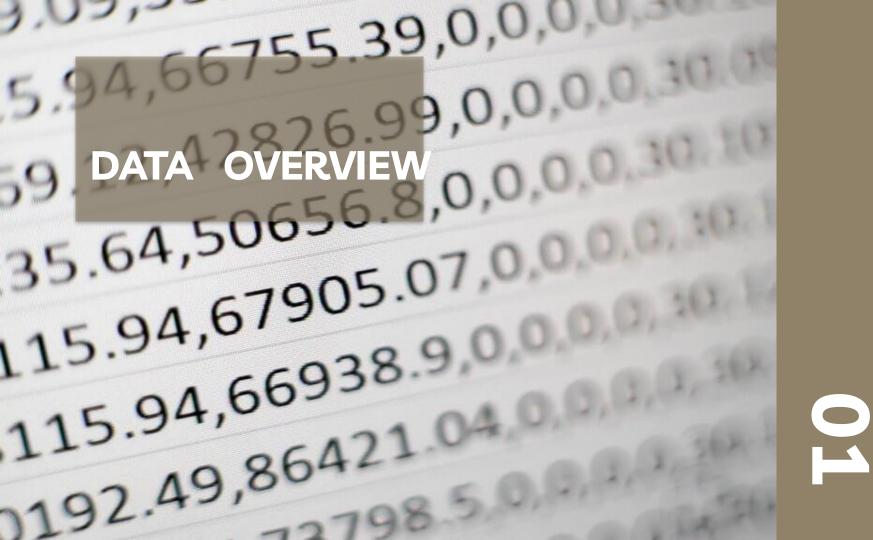


Identify leading factors of auto incidents to locate areas of improvement for safety







OVERWHELMING AMOUNTS OF DATA

3 different datasets totaling at close to a million observations

INCORRECT DATA

Abundance of data that did not make sense in a realistic setting.

over 1,000 lanes present

WHAT WE WORKED ON

MEANINGLESS DATA

Features recording the same value for every entry

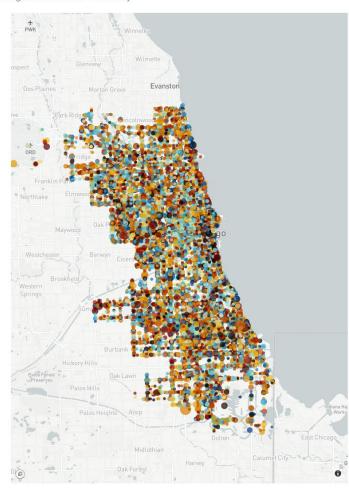
MISSING DATA

Crashes - >20% People - >35% Vehicles - >70%

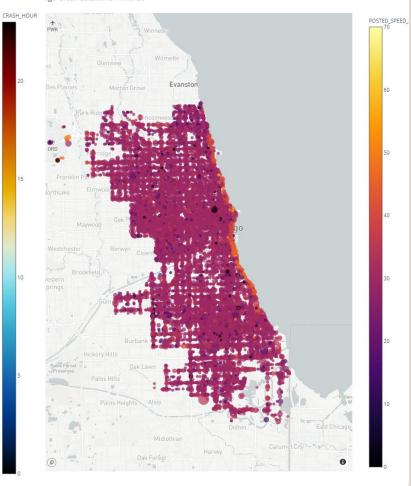


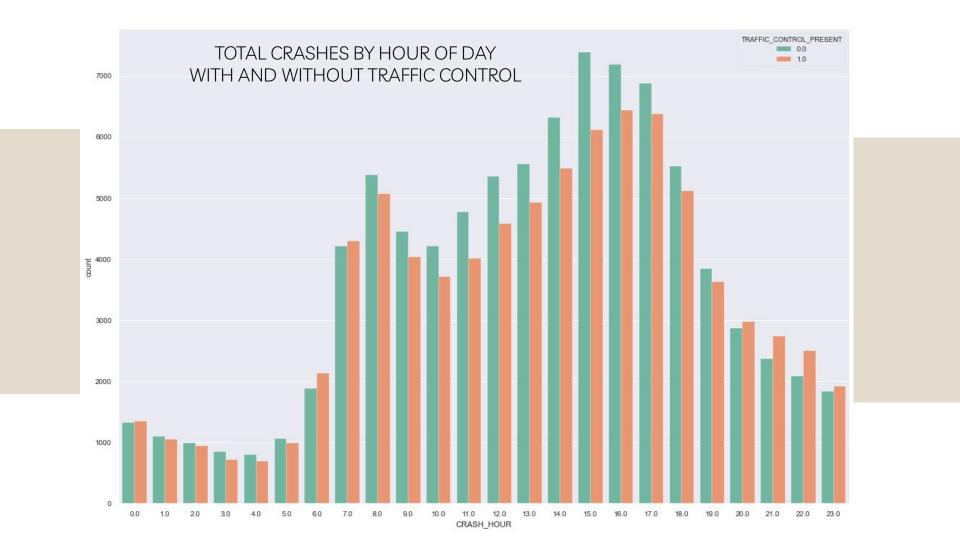
S N

Chicago Crash Locations - Time of Day

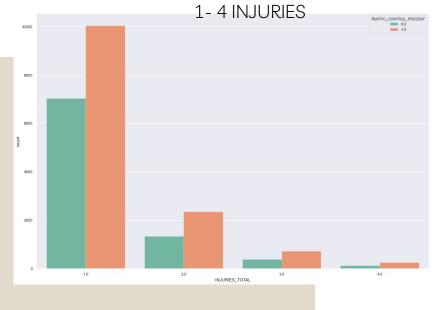


ago Crash Locations - Filtered

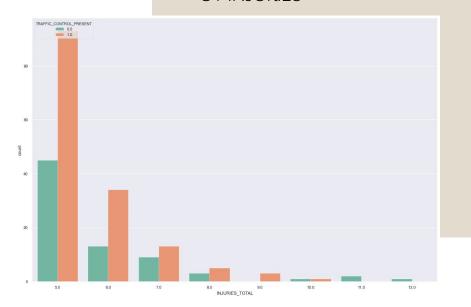




INJURY DISTRIBUTION BY TRAFFIC CONTROL IN THOUSANDS

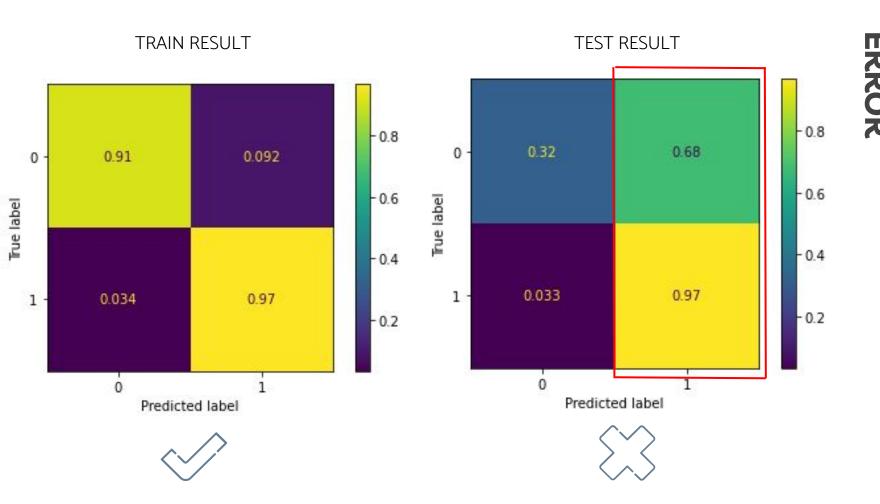


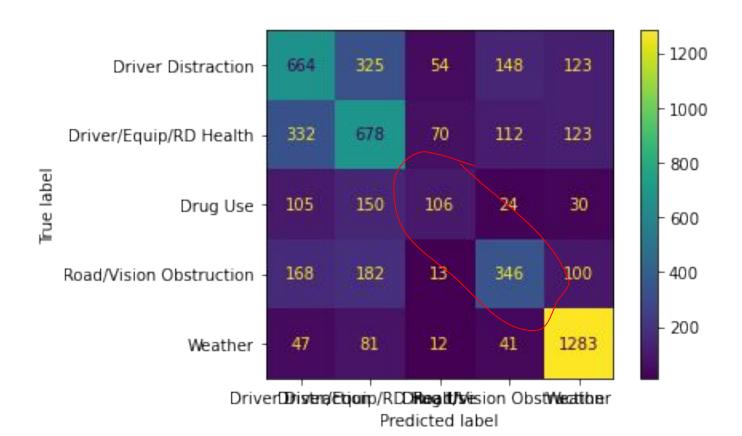
INJURY DISTRIBUTION BY TRAFFIC CONTROL IN TENS 5+ INJURIES











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LOW INJURIES/FATALITIES

>99% were fatality free >85% were injury free



TRAFFIC CONTROL

More injuries did occur WITH traffic control present On average more accidents occurred WITHOUT traffic control

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STEP 1

Improve data entry and collection

STEP 2

Clean an incorporate additional datasets for further insights Identify problem traffic control areas





STEP 3

Model refinement and alternate classification groupings by association

