

Progress Report

Truck Stop Project

William Clinton Co

2025-01-17

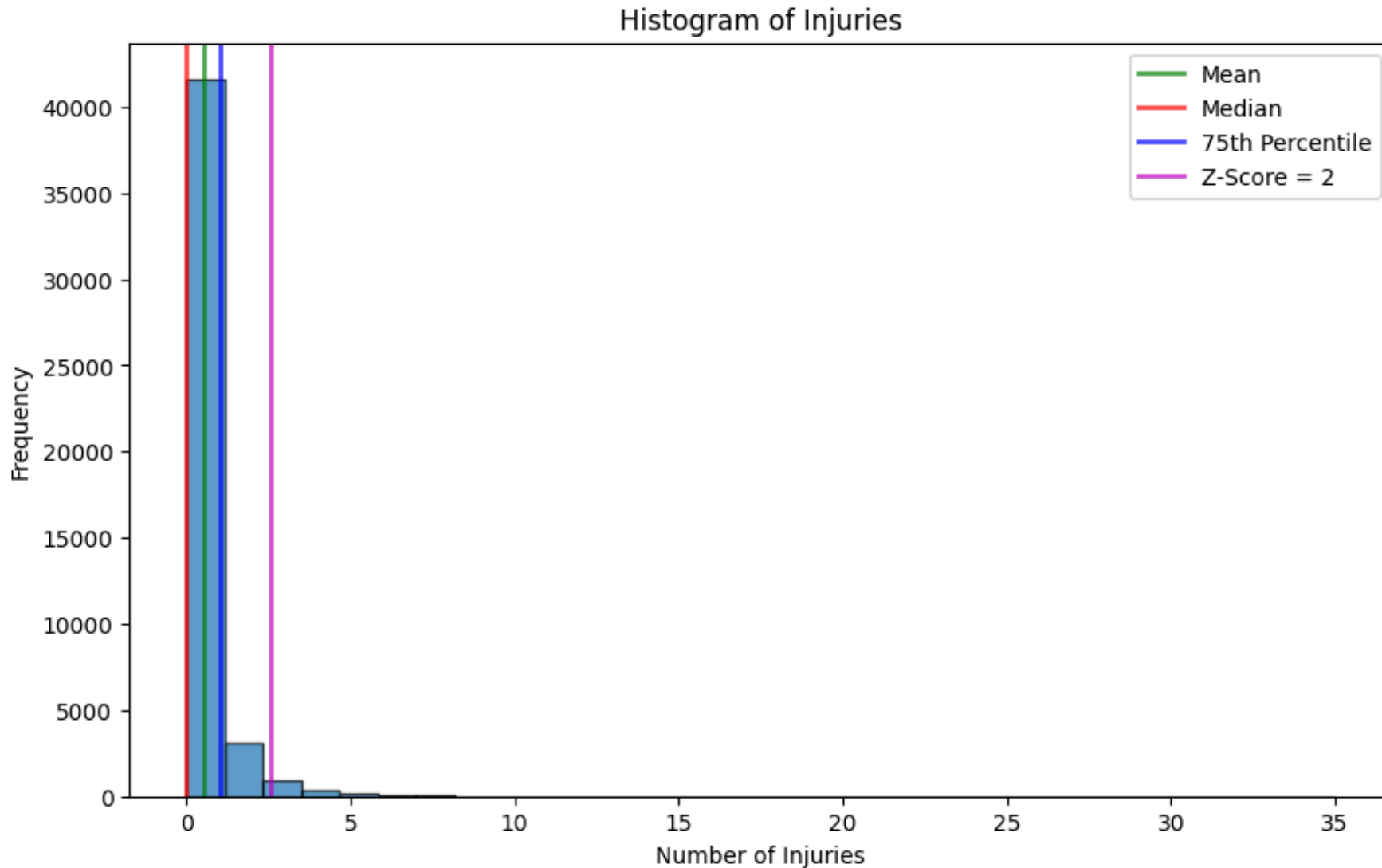


Ideas Updates

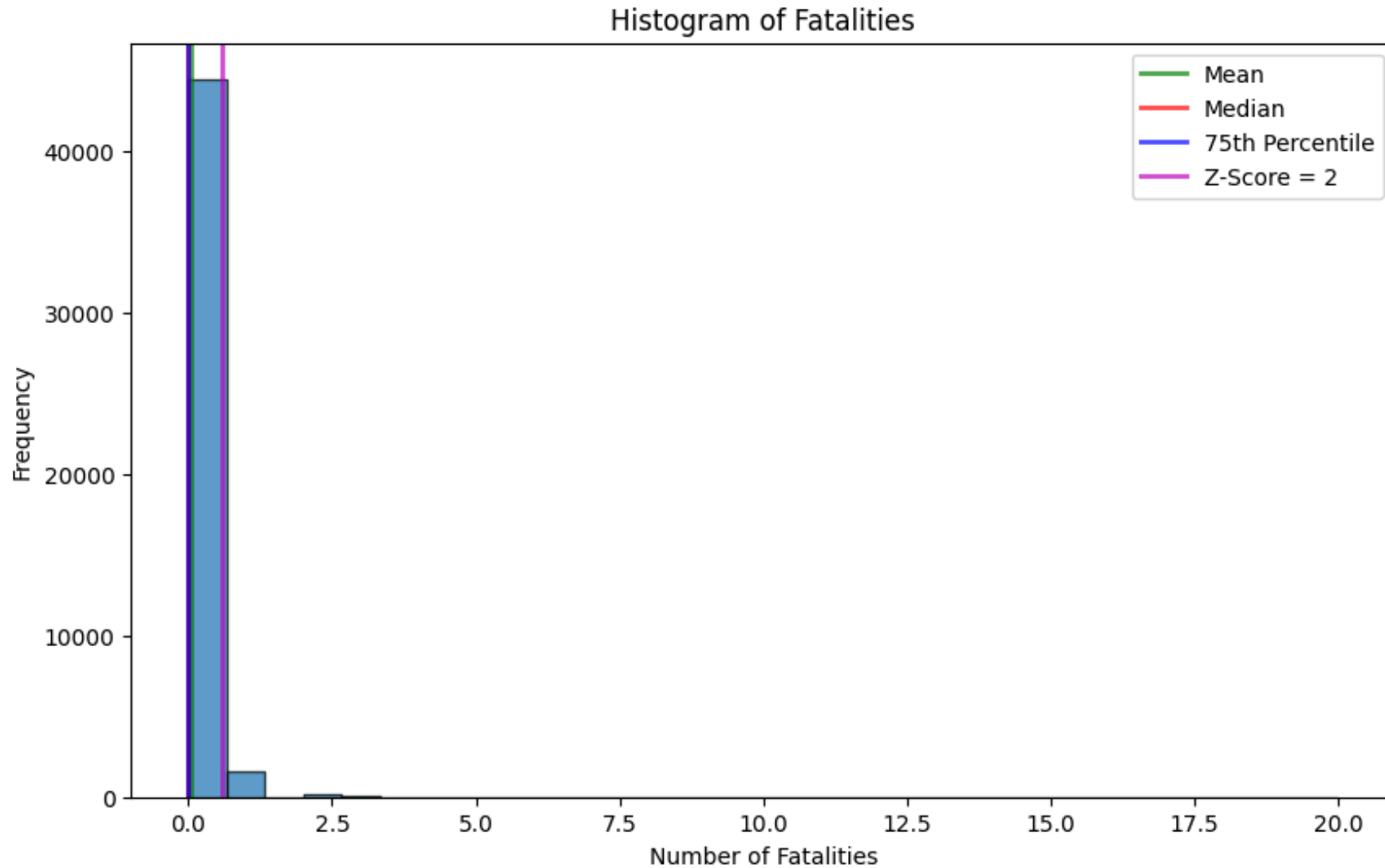
1. What constitutes as severe accident?
2. Adjusted Model for Truck Parking Analysis
3. Data Cleaning Progress



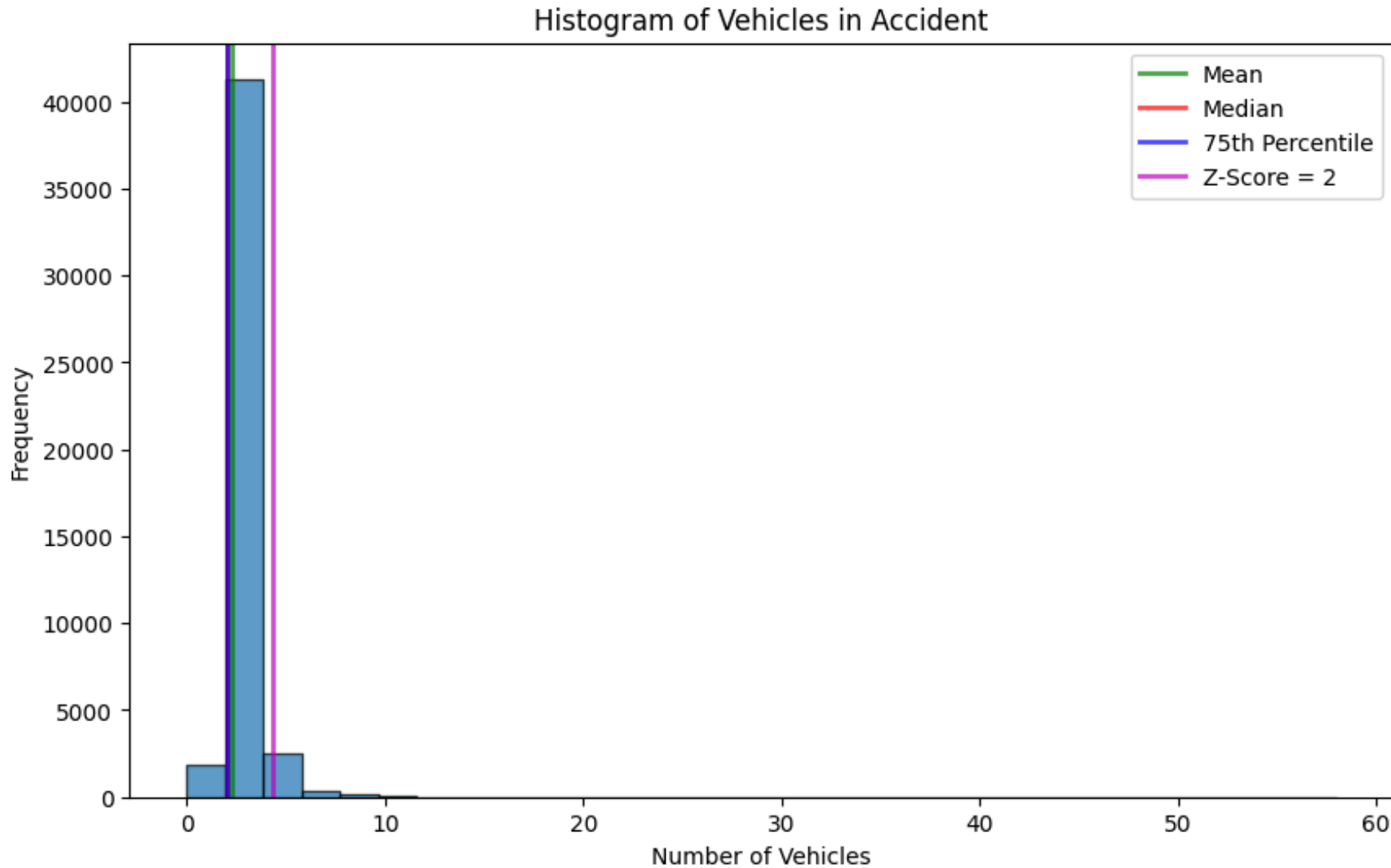
What constitutes as severe accident?



What constitutes as severe accident?



What constitutes as severe accident?



Adjusted Model for Truck Parking Analysis



Adjusted Model for Truck Parking Analysis

- Fix limited observations
- ways to deal with it?



Adjusted Model for Truck Parking Analysis

look at Δ_{2006} and change in Δ_{2016} vs look at $\Delta_{2006-206}$



Adjusted Model for Truck Parking Analysis

$$\Delta \text{Num_Truck_Stop}_{t=2006-2016} = \sum_{i=2}^0 \beta_{t-i} \text{TPA}_{t-i} \cdot \text{Severity} + \gamma X_t + \epsilon_t$$

- β_{t-i} : A lagged dummy variable indicating a severe truck parking accident.
- Severity is our measure of severity of the accident ('VEHICLES_IN_ACCIDENT' or 'INJURIES' or Fatalities)

Data Cleaning



Data Cleaning Tips?

need to join to 1 column how?

	REPORT_DATE	FATALITIES	COUNTY_CODE
35811	2005-06-06	1	185.0
36005	2005-05-14	2	57.0
36338	2005-12-15	1	159.0
37404	2005-12-09	1	3.0
37457	2005-07-28	1	3.0
...
46296	1995-08-27	2	65.0
46299	1999-10-23	3	89.0
46300	2000-08-06	2	55.0
46301	1999-06-14	2	145.0
46302	1999-06-03	5	117.0

COUNTY	change_2006_2016
1001	0.0
1003	-2.0
1005	1.0
1007	1.0
1009	-1.0
...	...
56037	-1.0
56039	0.0
56041	0.0
56043	-1.0
56045	0.0



References

