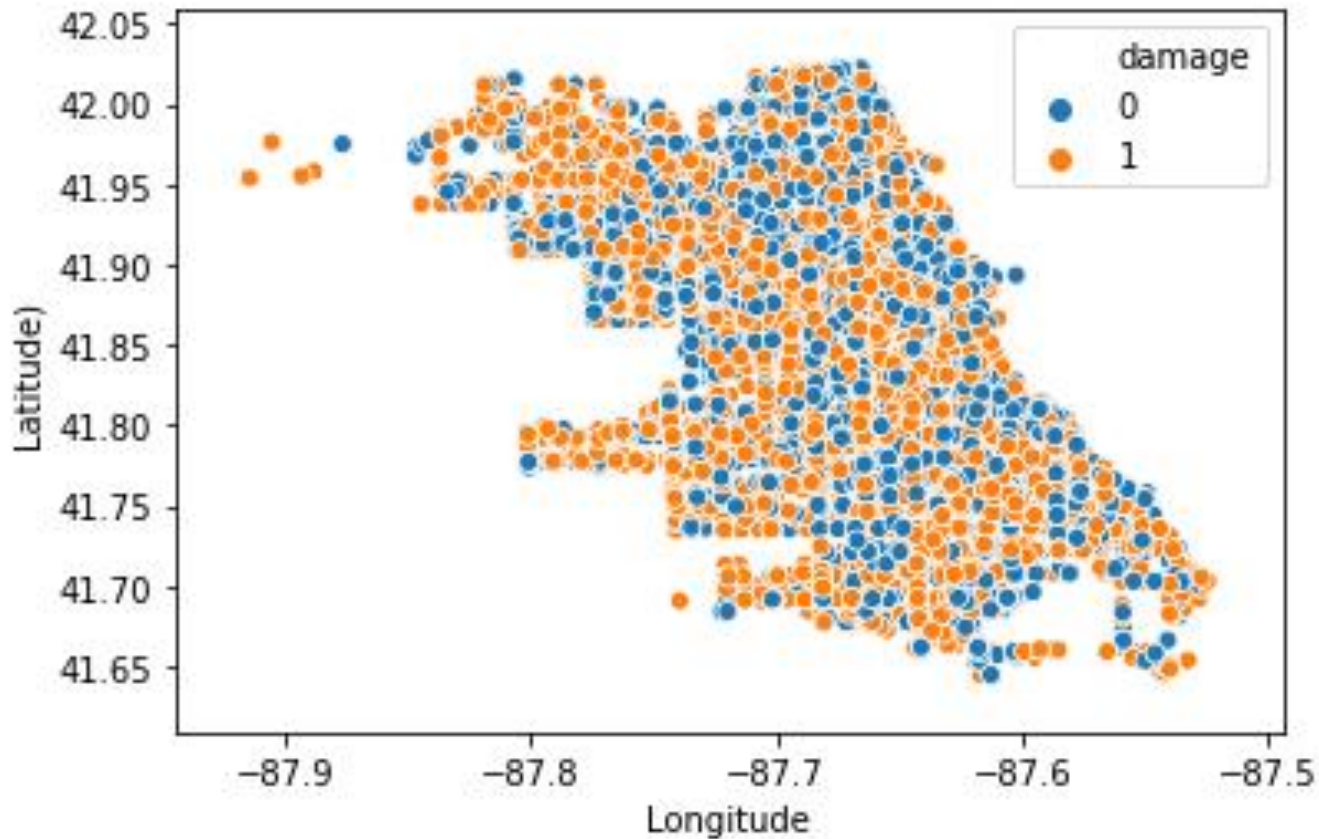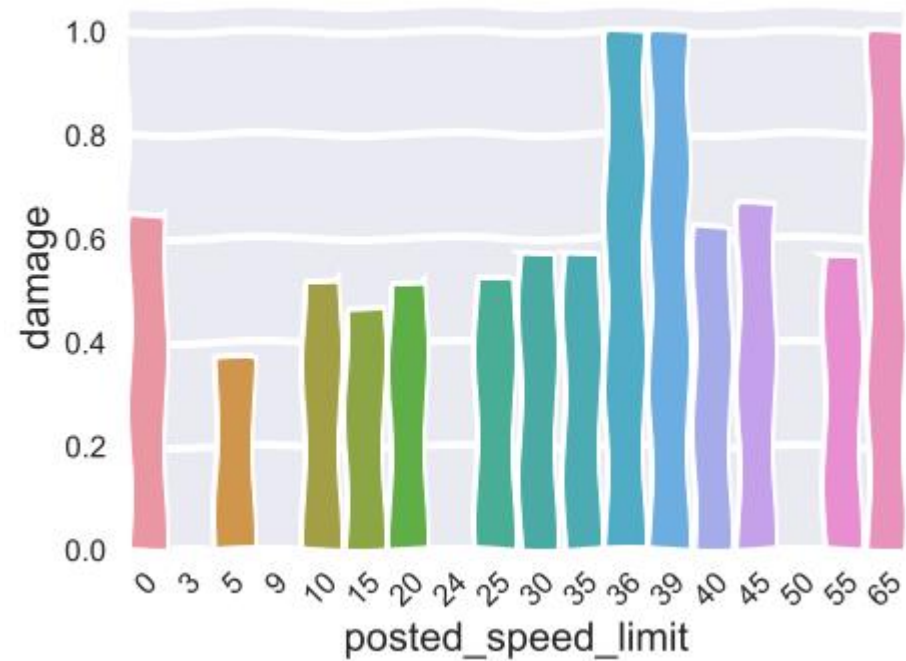# Chicago Car Crash & Damage Prediction
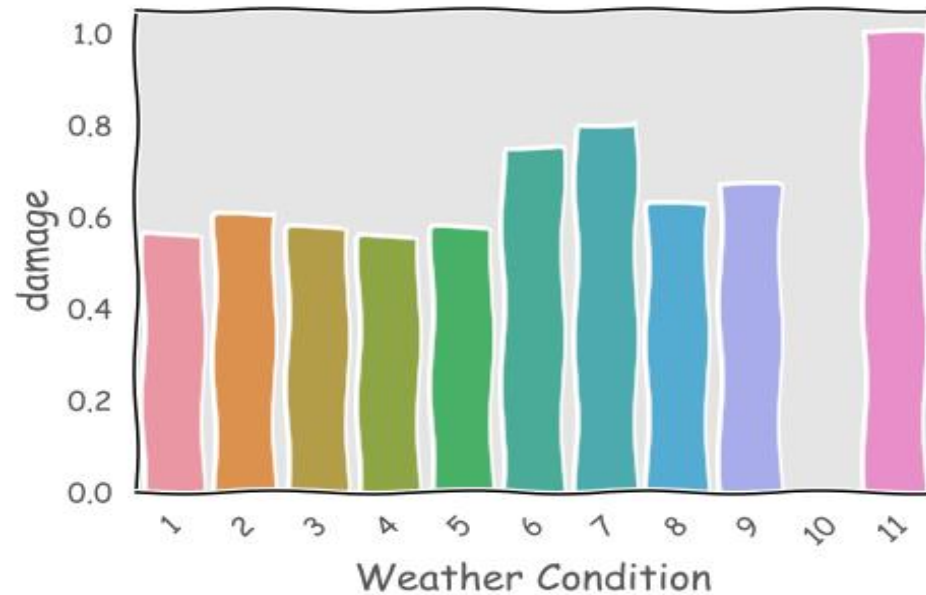
The Case

- **Build a classifier to predict the COST OF DAMAGE whenever a crash is recorded**

- **Above $1500 / Below $1500**

- **Data Base from 2015-2020**

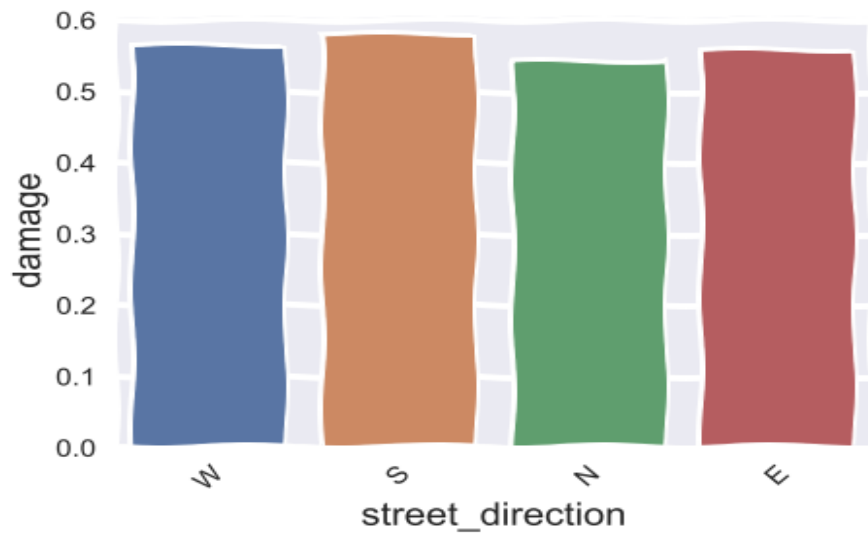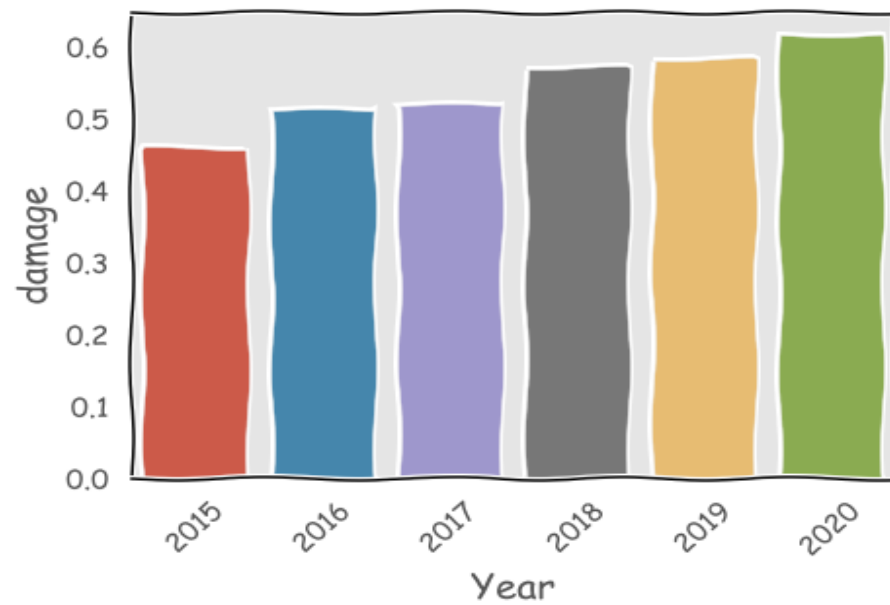- **Data Downloaded from the city of chicago data website**

Damage and Speed Limit
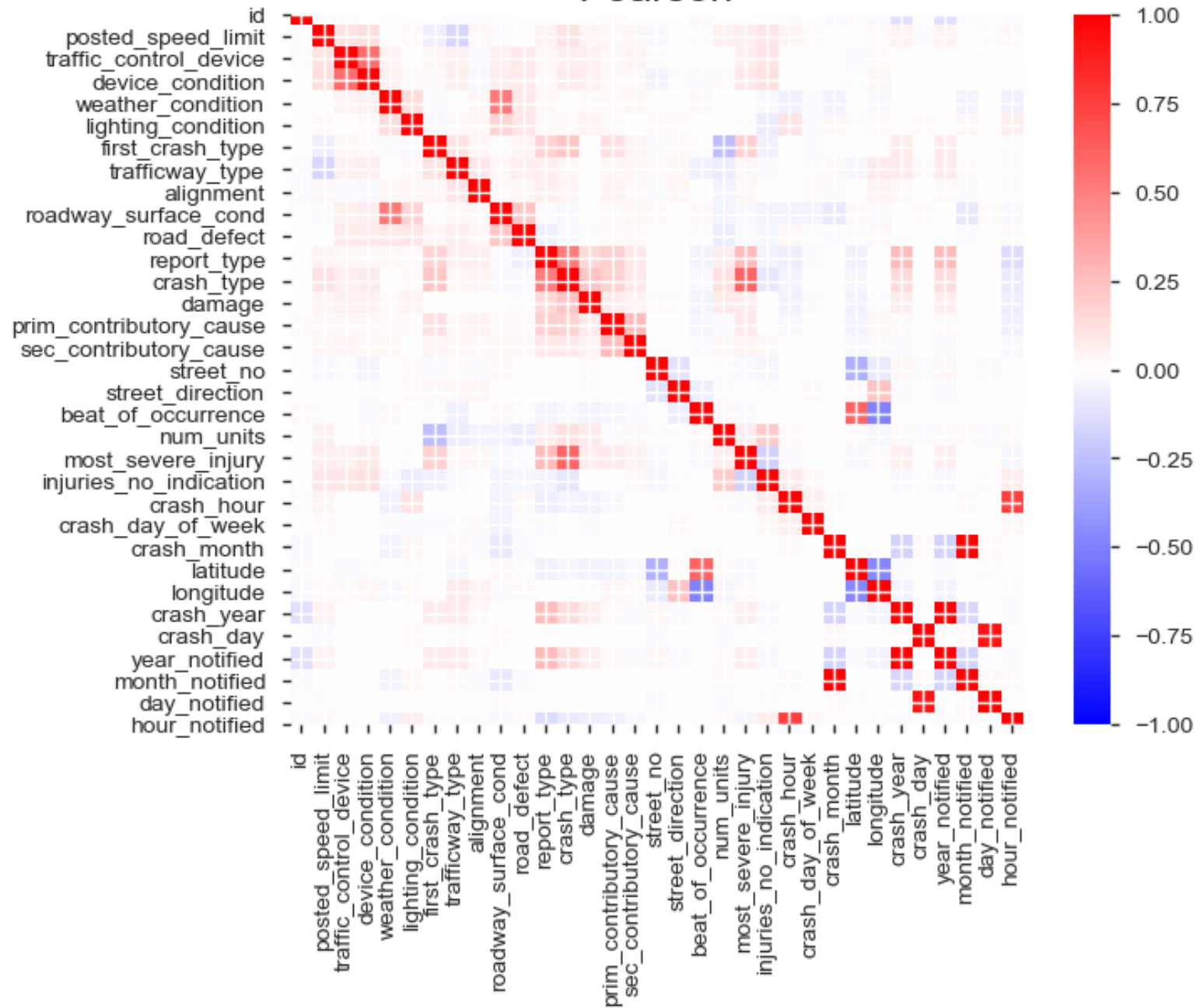
Damage and weather condition
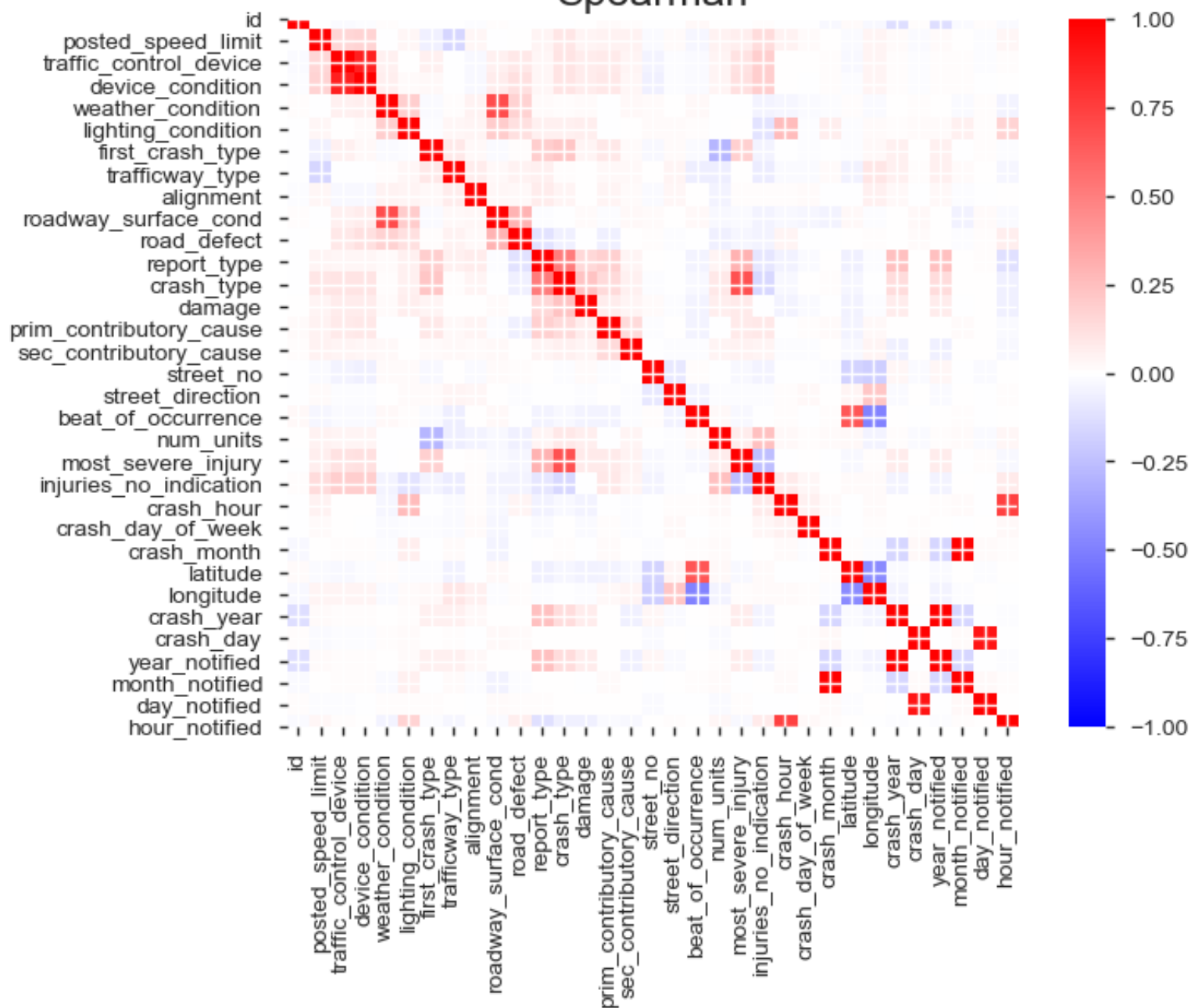
Damage and Street Direction

Damage Over The Years

Pearson

Spearman

Algorithm

A.Logistic Regression

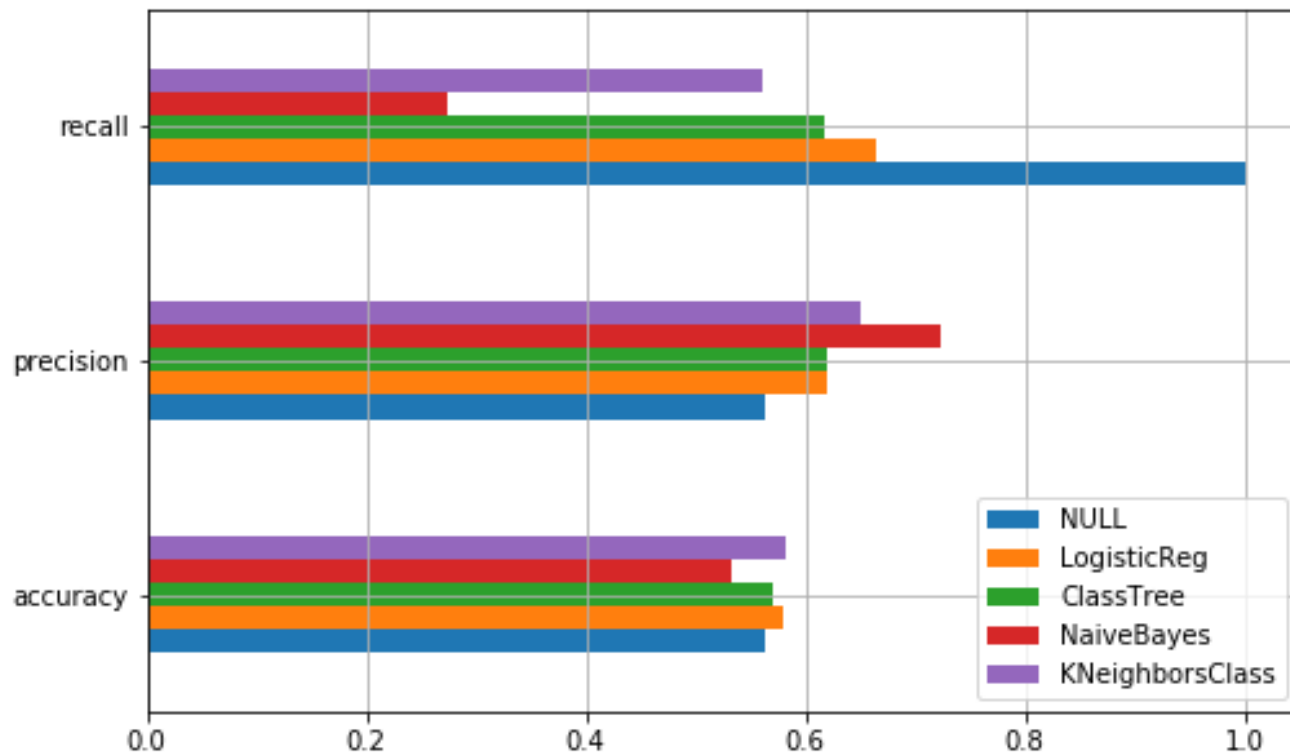B.Classification Trees / Decision Trees

C.Naive Bayes Classifier

D.KNN Classifier

E.Random Forest Classifier

F.Extreme Gradient Boost

G.Support Vector Machine

	NULL	LogisticReg	ClassTree	NaiveBayes	KNeighbors Class
accuracy	56.4156	58.026	56.9351	53.1429	58.1299
precision	56.4156	61.9416	61.8652	72.3301	64.9573
recall	100	66.3904	61.6943	27.4401	55.9853

Next step :
Work on the Larger Data
Predict Crash based on time

Thank you

- Github project link :

- https://github.com/ksis1st/Chicago_Car_Crash_Prediction

- Linkedin :

- https://www.linkedin.com/in/kishor-shankaranarayan-bab2a311/