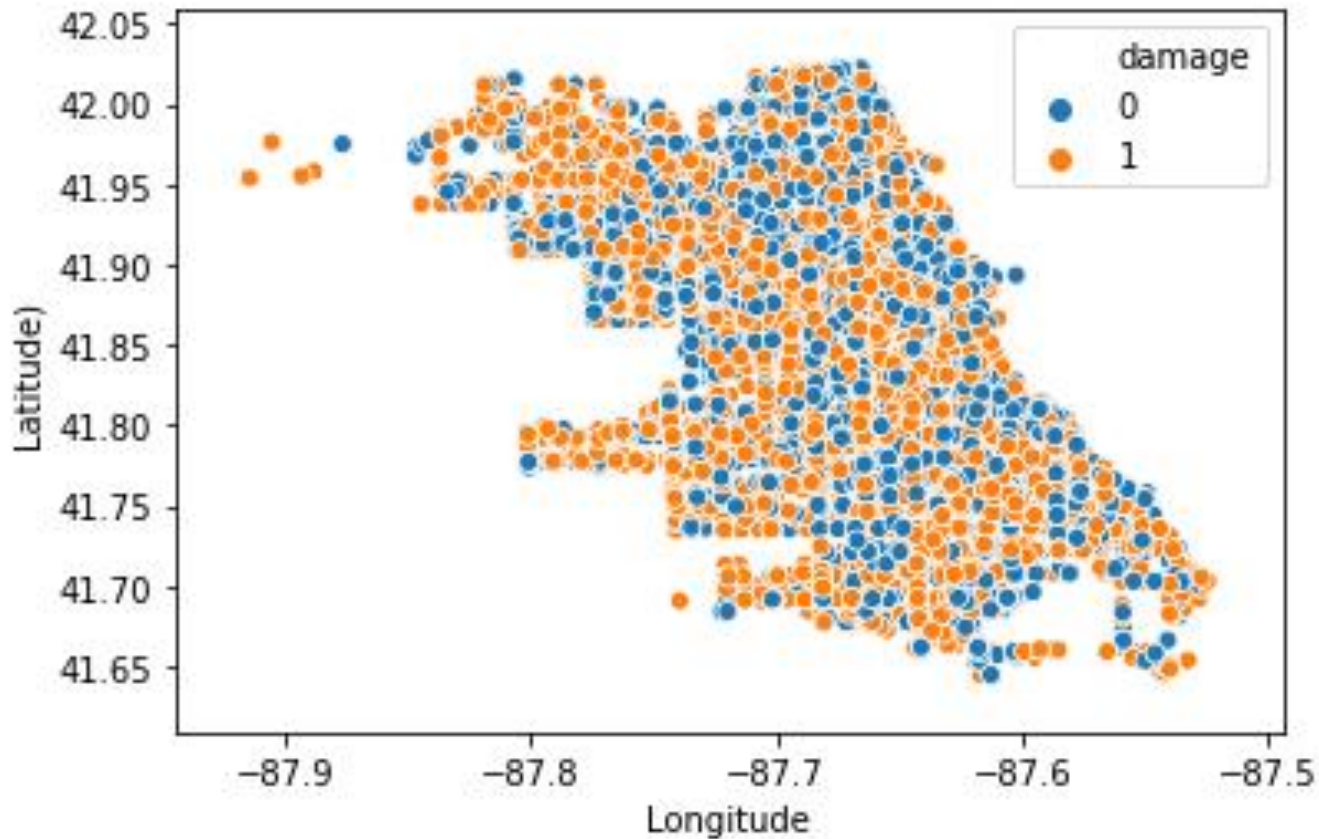


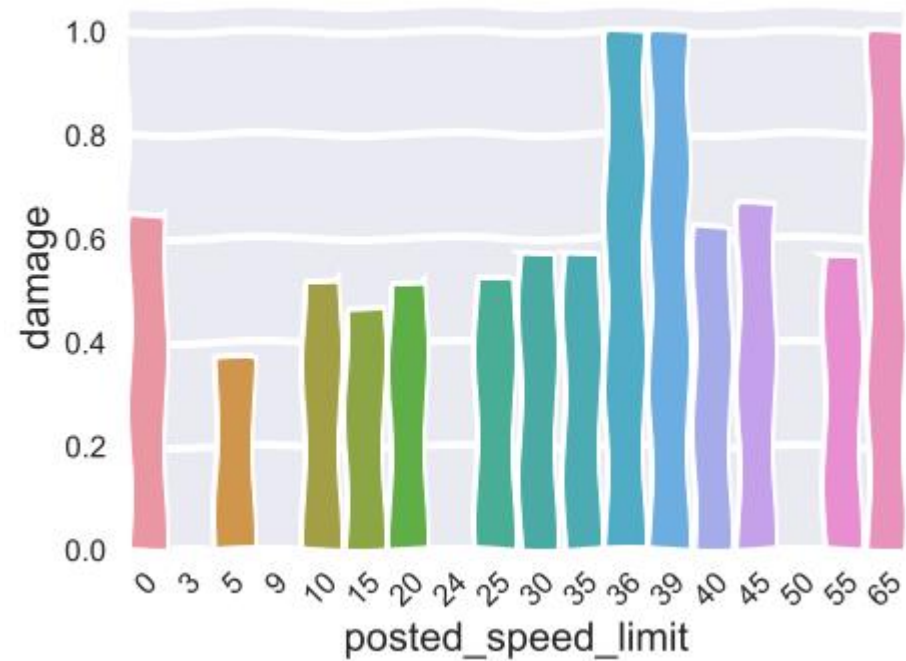
# Chicago Car Crash & Damage Prediction



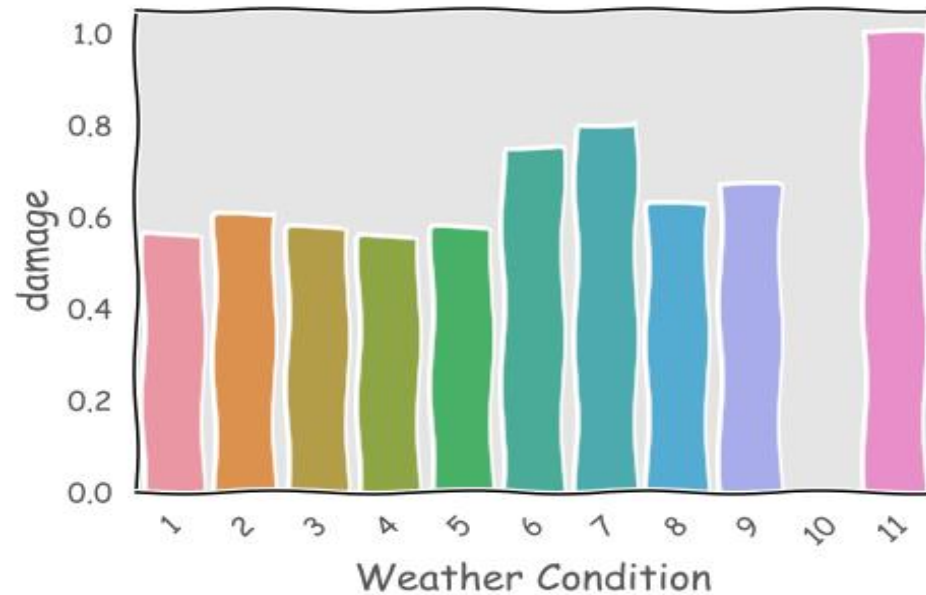
# The Case

- **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**

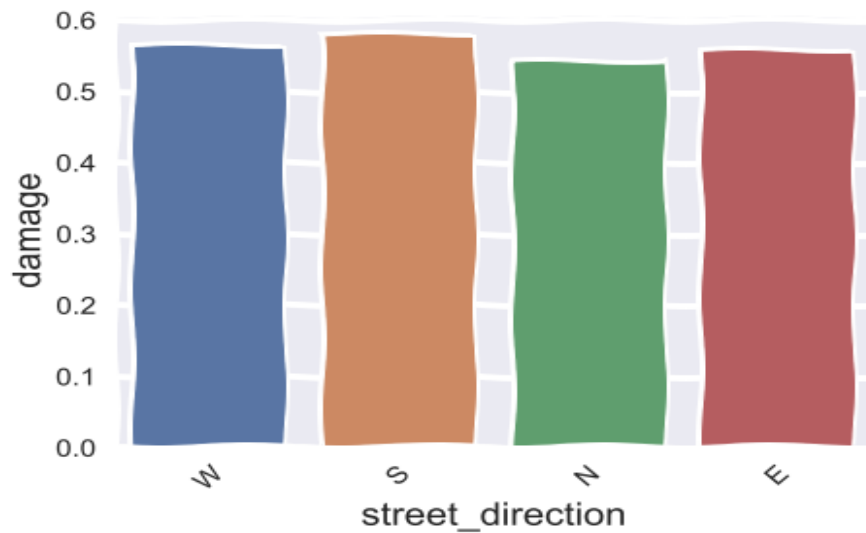
Damage and Speed Limit



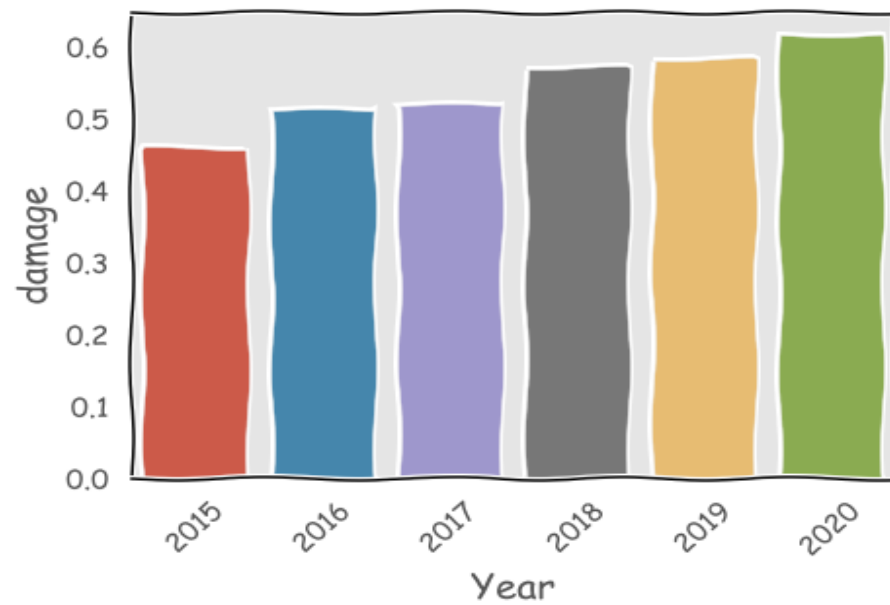
Damage and weather condition



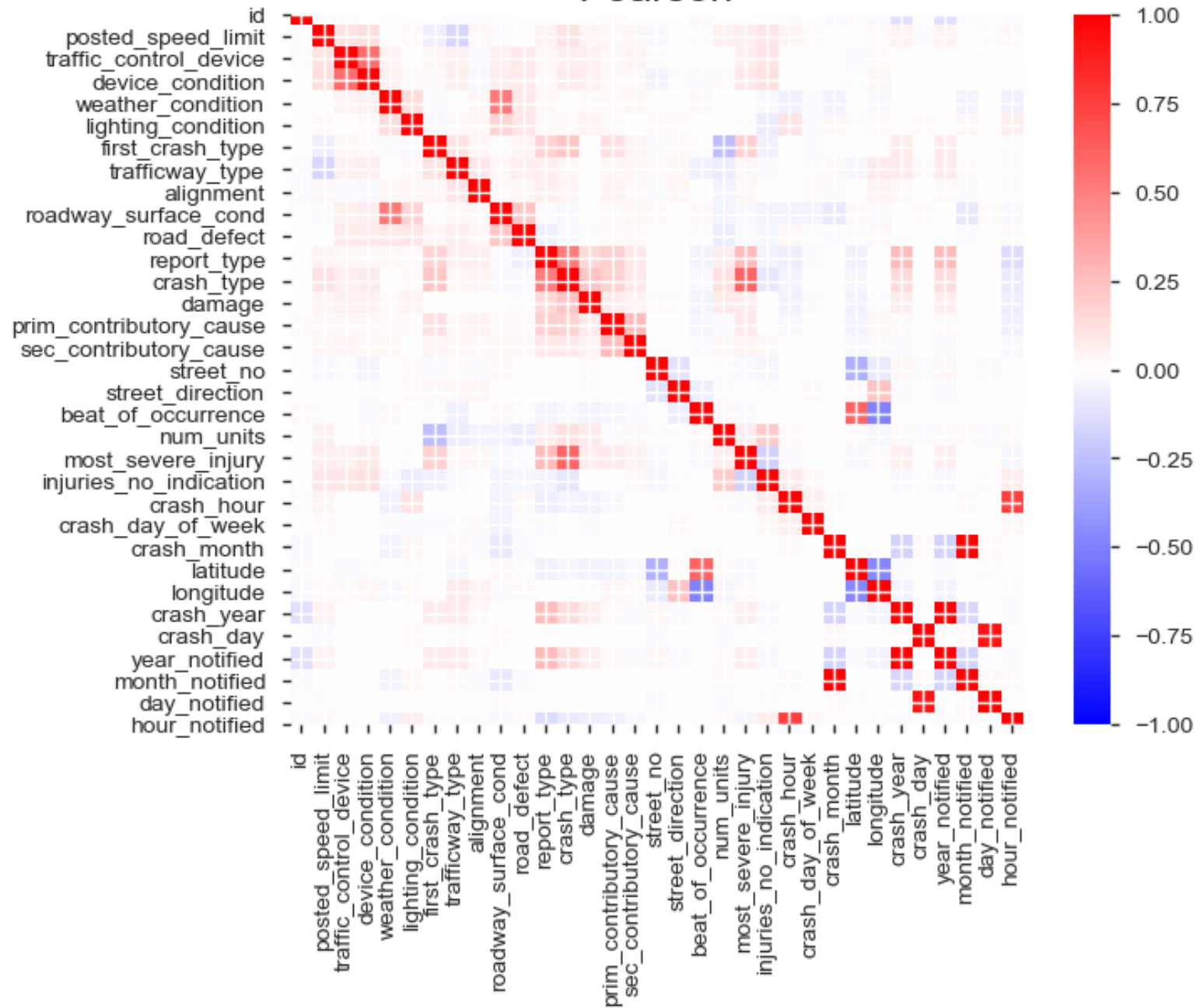
Damage and Street Direction



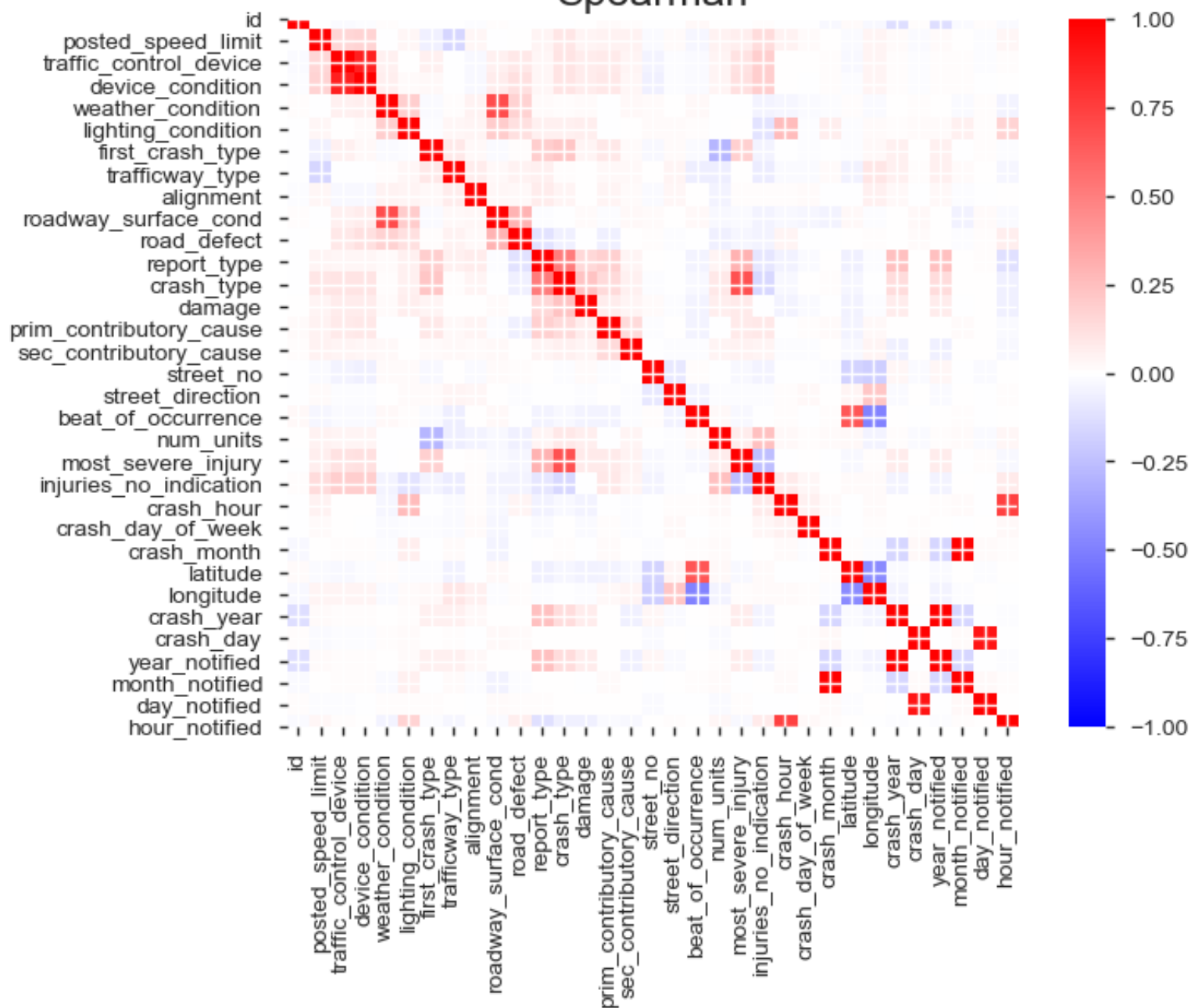
Damage Over The Years



Pearson

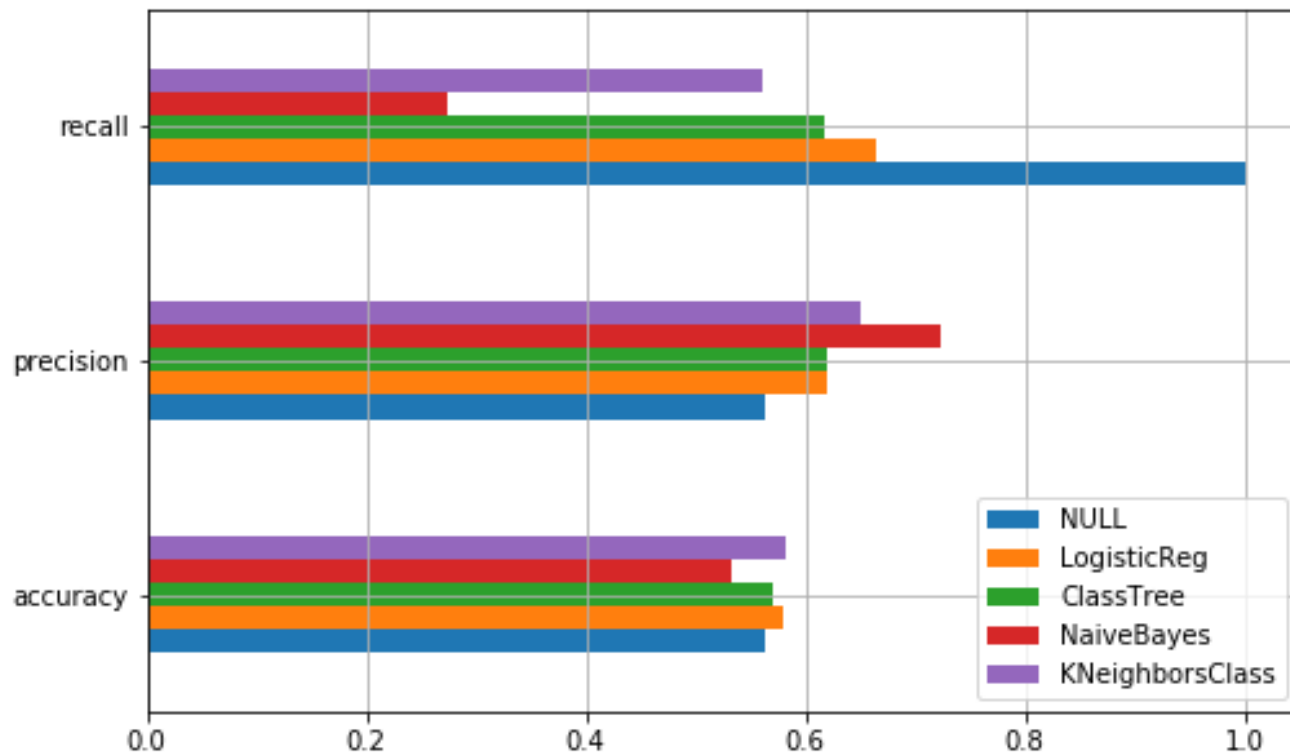


## Spearman



# Algorithm

- A.Logistic Regression
- B.Classification Trees / Decision Trees
- C.Naive Bayes Classifier
- D.KNN Classifier



	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](https://github.com/ksis1st/Chicago_Car_Crash_Prediction)
- Linkedin :
- <https://www.linkedin.com/in/kishor-shankaranarayan-bab2a311/>