Weekly Project Meeting Minutes

Time group spent on project: 9 hours

Group Number: 8

* Tejas Patel - 0734912
* Soorya Suresh - 0735168
* Sunny Singh – 0733910

# TOPIC: By using Machine Learning predicting Fatalities in Canada by Accidents.

**Specific Activities from prior week:**

* We are focused on solving the business problem
* We tried different models on our dataset.
* We are focusing on deep learning.

**Specific Output from prior week:**

* We tried various models for our data and got the highest accuracy for XG Boost with 67.53%.
* Other models we tried were like Logistic regression and got accuracy of 59%. In this training and test was having same accuracy.
* Random forest training accuracy 64% and test 60%. We tried n= 100 and got this accuracy. After that there was no improvement. So, we took this accuracy.
* XG Boost 67.53%. when using cross validation where we used k fold of 5 and the accuracy was low (57.50%). Then we again used XG Boost classifier where we used the seed and was able to get an accuracy of 67.53%.

* Indicate the current status of your project

|  |  |
| --- | --- |
| o | everything on track for completion by due date |

**Challenges/Disagreements:**

* Finding out the best fit model for the data.
* Getting a good model accuracy
* Implementing deep learning models in next week
* Each and every group member were co-operative we worked hard to achieve the result in desirable time limit.

**Planned Activities for coming week:**

* We will be trying to execute deep learning models into our data and try to bring out best possible accuracy out.
* Exploring and learning which model will be able to give best prediction.

**Contribution from grp members:**

* Tejas – python and Report present
* Soorya- Deep learning, weekly minutes and report present
* Sunny – Report present

**References:**

Open.canada.ca. (2020). *National Collision Database - Open Government Portal*. [online] Available at: https://open.canada.ca/data/en/dataset/1eb9eba7-71d1-4b30-9fb1-30cbdab7e63a [Accessed 5 Mar. 2020]