# Weekly Project Meeting Minutes

*The main purpose of the document is to capture all the work that has been done by the group over the course of one week and* ***not*** *to write down what was discussed in a single meeting. You should be meeting and/or working throughout the week*.

**Time group spent on project**: 9 hours .

**Group Number:** 7

**Group members present (Name, ID):**

Delta Joseph(0735816)

Amith John Varkey(0735036)

Abdul Hannan Mansoor(0735818)

**Specific Activities from prior week:**

We have worked on price prediction of used cars dataset to find the co-relation between different features.

* Dropped columns which were least importance
* Converted the categorial values into dummies using “ get\_dummies function ”.
* We have created models like Linear Regression Model, K-Neighbors Regression, Decision Tree Regression ,Random Forest, Gradient Boosted Regression Model, Ridge Regression, Lasso Regression.
* We also did visualizations for every model.
* Started working with first two sections of project report writing.

**Specific Output from prior week:**

* Splitting the dataset with the ratio 80%(Training) and 20%(Test).

|  |  |  |
| --- | --- | --- |
| **Model** | **MAE(%Test)** | **R2\_Score** |
| Linear Regression | 1027326.3 | -88170578671.3808 |
| K-Neighbor Regression | 42.1 | 0.538 |
| Decision Tree Regression | 21.1 | 0.833 |
| Random Forest Model | 15.8 | 0.917 |
| Gradient Boosted Regression | 54.3 | 0.384 |
| Ridge Regression | 26.3 | 0.828 |
| Lasso Ridge Regression | 25.9 | 0.821 |

* As we know , lowest the MAE value for test the better model we have .
* According results of model we can conclude Random Forest was the best model till now.

Contributions from Delta Joseph

* Worked on Linear Regression and K- Neighbor Regression models
* Started working on Report Writing

Contributions from Amith John Varkey

* Worked on Random Forest, Ridge regression, Lasso regression models
* More exploration to find correlation between features

Contributions from Abdul Hannan

* Worked on Gradient Boosting Regression, Decision tree models
* More exploration to find correlation between features.

**Python Link** : <https://github.com/DAB-400-Capstone/Final-project/blob/master/Project%20.ipynb>

**On Target:**

Indicate the current status of your project

\_\_\_\_\_ green: everything on track for completion by due date

\_\_\_\_\_ yellow: a small number of tasks are off track and completion by due date is at risk

\_\_\_\_\_ red: many tasks are off track and project will not be completed by due date

**Challenges/Disagreements:**

* Converting categorial values into dummy values.
* We also had a negative value of R2 score for linear regression model.
* We didn’t had much disagreements about the topic.

**Planned Activities for coming week:**

Expected contribution from Delta Joseph

* Working on further detailed reporting
* Exploring on different test size and working again on models
* Studying on Keras models

Expected contribution from Amith John Varkey

* Working on further detailed reporting.
* Exploring on different test size and working again on models
* Working on deep learning.

Expected contribution from Abdul Hannan

* Working on further detailed reporting
* Exploring on different test size and working again on models
* Working on deep learning.