



**Ahmedabad
University**

CSE523: Machine Learning

Weekly Report-9

Submitted to: Prof Mehul Raval

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**Group No.4
Optimizers**

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Work done this week:

We implemented LightGBM model on our model and calculated RMSP error.

We got RMSPE error of about 0.24 for our model.

We did K fold Cross validation on our data for K=4 and get average of 0.24 RMPSE.

What is K fold Cross validation?

Shuffling the dataset randomly. Split the dataset into k groups

For each unique group:

Take the group as a hold out or test data set. Take the remaining groups as a training data set. Fit a model on the training set and evaluate it on the test set. Retain the evaluation score and discard the model. Summarize the skill of the model using the sample of model evaluation scores.

Work to be done this week:

We will try to increase the model accuracy by performing feature selection.

We will work on the PPT, report for the final submission of the project.