

GROUP PROJECT PROPOSAL

Your Group Number: 3

Section: 2

Your Group's Team Members: Junaid Ahmad, Fardin Anam Aungon, Subash Velmurugan

Project Title: Impression Forecast Model - IFM

Dataset Name (If decided): Driving School Game Data : Proprietary data

What is the problem statement?

To develop a time-series regression model that predicts the number of downloads for an application on day T, given a feature vector X representing the preceding n days of historical data.

Proposed Methodology (Discuss types of models, validation, evaluation plans):

Data Preparation:

Data will need to be extracted and prepared, a collection pipeline will be established for this process.

Models :

Linear Regression, LSTM and Facebook's Prophet Model. We will investigate other models as well like ARIMA, ARDL and different LSTM variations

Validation:

Using Existing past data we will check our model's accuracy using MAE, MSE, Huber Loss and other time series based evaluation Metrics

Evaluation Plans:

We will evaluate each of the models we build and compare them with each other.

GitHub Link (Make sure the repository is public):

<https://github.com/Junaidsgs/IFM>