# MACHINEKNIGHT HACKATHON

**Problem statement-** Your friend is going to start a real estate business,and ask your help to predict the house rents in his regions.He gave you a housing data to work on .You decided to build a machine learning model that can predict the rent of a house.

Also your friend has no idea about ml and how to make predictions using ml model.So, you have to build an api hosted front-end web app,so that your friend can easily operate that.

**Task** - You are given that dataset of housing properties. Your task is to create a ML model that can predict the rent of a house based on the given properties.Serve that ML model using rest api.you have to integrate both backend and frontend.

**Train your model using the train data and make predictions of the test data.**

**Submission -**

1. A document (Readme file) that briefly describes your approach,details about feature engineering,and the tools that you will use and any other information you want to include.
2. the source file (code used for model building including pre-processing ,post-processing ,train & test).the source file also should have proper documentation.( .py / .ipynb file expected)
3. the test data result(.csv file) that you will generate by testing your model using the test data.
4. The api hosted front-end web file.

**All 4 submissions should be in a folder or in a zip file.**

**Evaluation** - Model evaluation will be based on the Accuracy of test data using the $RMSE$ (Root Mean Squared Error).and also your approach and api working will be checked

Data -

1) Train.csv( 20500 Rows **X 25 columns)**
2) test.csv(4500 rows **X 24 columns)**