MANARAT INTERNATIONAL UNIVERSITY

Department of Computer Science and Engineering
Artificial Intelligence (CSE – 411)

ASSIGNMENT MILESTONE

PROBLEM TILE

House Prices: Advanced Regression Techniques

TEAM INFORMATION

❖ **Name Of Our Team : Friends**   ⌂ k

❖ **Contestants Name & Student ID**
  ➢ kazi Mushfiqur Rahman   :: 1640CSE00465
  ➢ Minhazul Zannat   :: 1640CSE00466
  ➢ Ashrafujjaman   :: 1640CSE00537

❖ **Problem Statement**
The problem is for predicting an unknown random house's price of a given specific area, base on it's given features comparing with the features of some other houses of the same area which prices are given as sample. Our data comes from a Kaggle competition named "House Prices: Advanced Regression Techniques". It contains 1460 training data points and 80 features that might help us predict the selling price of a house.

❖ **Technical Approach**
The methods we intend to apply to solve the given problem are :

- Linear Algebra
- Logistic Regression
- Bayesian Algorithm
- Naive Baye Algorithm
- Neural Network

We will try to use most of the approaches to reduce the Root-Mean-Squared-Error (RMSE) of our project. For so some of our intended methods can be used in a little area and even some other methods can also be used depending on the situation we will face.

Our programming language will be Python 3

❖ Expected Submission

- Position   : We expect that we will be in top 200 in scoreboard
- Times   : Our submission times can be 7+
- Result   : We desire that our project will provide 83% accuracy on predicting.