***Project Synopsis and Requirements***

***Group No:- 11***

***Project Title: -*** *Comparison between decision tree and random forest towards recommendation system or engine.*

***Project Abstract: -*** *A decision tree is a supervised machine learning algorithm that can be used for both classification and regression problems. A decision tree is simply a series of sequential decisions made to reach a specific result.* *A random forest is a supervised machine learning algorithm that is constructed from decision tree algorithms. It utilizes ensemble learning, which is a technique that combines many classifiers to provide solutions to complex problems.* *These two machine learning concepts will be compared with each other and a generalized classifier will be suggested to overcome the shortcomings of both.*

***No of PCs required: -*** *2*

***PC configuration: -*** *4GB RAM (minimum)*

***Any other device(s) required: -*** *NO*

***OS with required version: -*** *Windows 10 /7*

***Softwares required with version of each: -*** *Anaconda Individual Edition current version, Python 3.8*

***Signature of group members***

***1.***

***2.***

***3. Reviewed and checked by Project Guide***

***4.***

***5.***