

## **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. Pritam Roy
2. Srijon Mallik
3. Rupak Pal
4. Pritam Das,
5. Souvik Saha



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**Reviewed and checked by Project Guide**