

Minor Project Review 1:

1. Project Title

Laptop Price Prediction Using ML Algorithm

2. Describe Your Project:

Laptop has become one of the most essential and used device in our day to day life for different activities. We have many no's of laptops with many specifications and brand names in the market, so it becomes difficult for customers to predict the price of the laptop. Machine learning (ML) is effective in assisting in making decisions & predictions from the large quantity of data produced. To build a model for predicting the price of laptops we applied different machine learning techniques. They are multiple linear regression, decision tree random forest and KNN algorithm.

3. What problem it solves?

In the laptop outlets every user don't know the laptop specifications, like prices of their respective different laptop models and user's price range what he want to have his own specifications of it. So our project helps in giving the appropriate information needed to the buyer for their clarity.

4. Who will be the potential clients/customers/users/startups/beneficiaries of the project. Describe appropriately. Why do you think they are your target audience?

Our potential clients/customers/users/startups/beneficiaries are , the consumers/End users, E-commerce platforms, Electronic Retailers, Tech Enthusiasts, investors, Laptop Manufacturers, Startup Entrepreneurs.

They are considered to be our target audience as they frequently involve in this process.

5. What will be the innovation in this project?

The main objective of our project is to predict the laptop by asking some basic questions to the user to know what type of laptop the user needs .For above we predict the price of the laptop that is close to the real ones .

6. How it will be the different from similar existing solution?

Using laptop price predictors and gaining knowledge of using the Decision Tree algorithm makes it easy for students, in particular in deciding the choice of laptop computer specifications that are most ideal for students to meet pupil desires and by the buying energy of students.

7. what makes it challenging Ough to be chosen to be done in four months (Jan-April)

It will be a challenging task to us because we need to build the model, train the model, make predictions, evaluate the model, preprocessing

So, that making all those things to workout will take some suitable amount of time (which is 4 months)

8. How you will measure the success / outcome / quality of your project

Our measure of success will be by the accuracy, Real-time performance ,user satisfaction and engagement

9. Resources required for the project and the feasibility of their availability as per the plans

Software: Python , MySql, MongoDB, React, ML,UIUX

Hardware: Google collaboratory, Python IDE, Notepad,

Dataset: Depends on the collaborations or from the kaggle

10.If you are a team of 2 or more then clearly define responsibilities and how each member should be assessed differently

Bhavana Potla(2103A52065): Collected the information about suitable models and trying to implement those models accordingly.

Dharani Hinge(2103A52063): Literature survey and research on existing solutions

Shivani Vasuri(2103A52156): Collection of suitable dataset and worked on it.

11.Evidence/literature/research/survey etc. in support of the hypothesis or idea to be successful. (Local/National/International Context)

Through reading few articles and projects related laptop predictions we came to conclude that this problem statement will be good and useful.

12.Risk Analysis (What & re the factors which pc se risk of failure of your project and risk of not completing your project by deadline)

It will be risky when we try to link all the software's which were developed seperatly.

To avoid this we are going to learn more about the things of how to merge all of them and even

We are ready to take help of our faculty, friends to overcome this risk.

13.List down the Ethics, Privacy, Moral and Legal issues related with the project.

Ethical Issues: Bias and Discrimination, Transparency and Accountability, Data Security

Privacy Issues: Data Collection and Storage, Data Sharing, Data Retention

Moral Issues:Trust and Integrity, Fair Treatment, Social Impact

Legal Issues: Compliance with Regulations, Liability, Legal Authority