CSE-4212 : Machine Learning and Data Mining Lab

Laptop Price Prediction

| Akshar Chowdhury |

Instructor : Md. Mynoddin

Motivation

- Making a project for Laptop price prediction. The problem statement is that if any user wants to buy a laptop, then our application should be compatible to provide a tentative price of laptop according to the user configurations.

Dataset Description

- I have collected our dataset from Kaggle that contains 12 Columns and 1304 Rows
- That contains certain weights like serial no., Laptop brand company,laptop type,scrreen resolution, Ram, Memory,GPU,Weight,Price etc

Significance of the study

- It would help as support system for the people who want to buy laptop with their requirements.
- A simple Machine learning web app deployed on predict laptop prices according to laptop configuration defined by user and saves a lot of time

Model

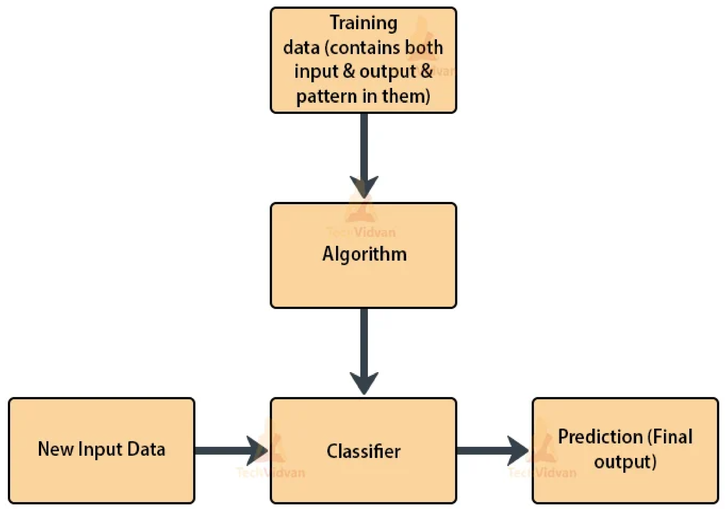
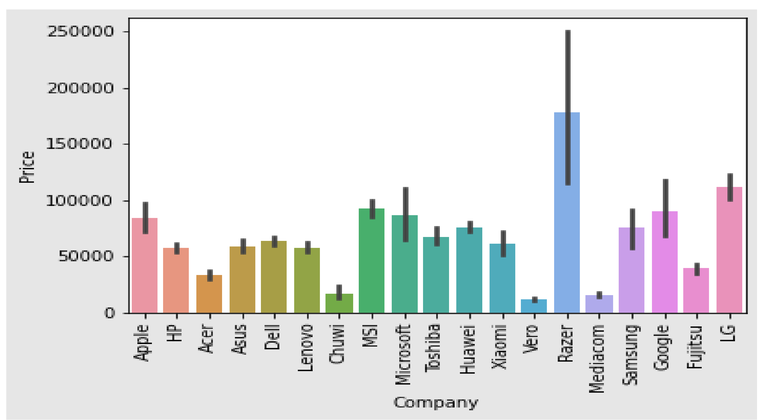


Figure : Logical Diagram of Supervised ML model

Testing the Model

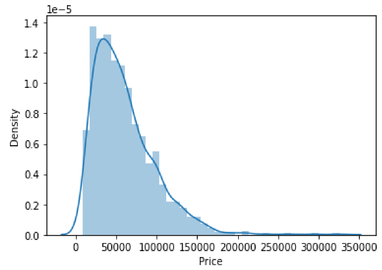
Correct Classification made by the model:



Experiment and Result

88% Testing Accuracy

Here the model accuracy is 88% and rest is the loss.



Model Accuracy graphed against Epoch

Figure: GUI for Laptop Price Predictor

Future Work

Machine learning is able to very accurately classify the need of the laptop bayers and predict price acrding to the expectation i will add more trained data feature to my dataset so that customer can get the price of the laptop more accurately.

References

1. Sorower MS. A literature survey on algorithms for multi-label learning. Oregon State University,Corvallis. 2010 Dec;18
2. Pandey M, Sharma VK. A decision tree algorithm pertaining to the student performance analysis and prediction. International Journal of Computer Applications. 2013 Jan 1;61(13)