Mobile Price Classification

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Mobile Price Classification

- Predict mobile price range not the exact price.
- Using features like camera, touch screen, cores, battery, clock speed, internal memory, battery capacity, etc.
- The price ranges from 0 (low cost), 1(medium cost), 2 (high cost),3 (very high cost)

Datasets Used

Train.csv - 21 column and 2000 rows

- Includes features like battery_power(Total energy a battery can store in one time measured in mAh), blue(Has bluetooth or not), clock_speed (speed at which microprocessor executes instructions), dual_sim(Has dual sim support or not), fc(Front Camera mega pixels), four_g(Has 4G or not) etc..

Test.csv - 21 column and 1000 rows

- Includes features like battery_power(Total energy a battery can store in one time measured in mAh), blue(Has bluetooth or not), clock_speed (speed at which microprocessor executes instructions), dual_sim(Has dual sim support or not), fc(Front Camera mega pixels), four_g(Has 4G or not) etc..

Algorithms Used

- Decision Tree Classifier
- KNN Neighbours
- Logistic Regression

Risks

- The main risk associated with this application is that if the businessperson doesn’t have any knowledge about phone and its price. There is a chance that, he might end with giving high price to phone that should fall into cheap ones and vice versa.

Benefits

- Useful for those with basic knowledge of pricing. No need to do manual calculations.

- Time saving

Recommendations

- If the training data contains too much info, that will lead to noise and inaccurate data entries. Then this model does not categorize the data correctly. So, if that the case with the data, then it will result in overfitting. So, in such cases always follow linear algorithm.