

CENG 3511

Artificial Intelligence

Project 4: Mobile Price Classification using KNN

Deadline: Dec 31, 2019 11:59:59 pm

In this project, you are expected to implement a KNN classifier in order to help Bob.

Bob has started his own mobile company. He wants to give tough fight to big companies like Apple, Samsung etc.

He does not know how to estimate price of mobiles his company creates. In this competitive mobile phone market you cannot simply assume things. To solve this problem he collects sales data of mobile phones of various companies.

Bob wants to find out some relation between features of a mobile phone(eg:- RAM, Internal Memory etc) and its selling price. But he is not so good at Machine Learning. So he needs your help to solve this problem.

In this problem you do not have to predict actual price but a price range indicating how high the price is.

Submission

In this project you are expected to deliver a single source file and a performance plot of KNN classifier. **You are not allowed to use any machine learning libraries.**

- Source files: knn.py
- Input files: train.csv and test.csv
- **Output files: plot.pdf**
- **README.txt:** Instructions for running the program.

You should commit these files under ceng3511/p4/ folder in your git account until deadline.

NOTE: Your project will not be graded if you don't follow the submission rules.