Power Hour: Python June 21, 2020

Problem statement: You are given data describing local properties and are tasked to:

1. Investigate if any useful insights can be found in the data.
2. A system can be developed to predict the selling prices of new houses as they are placed on the market.

Outline of the Session

* We will import the dataset
* Perform some EDA (Exploratory Data Analysis)
* Train a regression model to predict the price of the house given its characteristics
* Test our model on a new (unseen) property

Topics to Review

* P1
  + Functions
  + FOR loops
  + Classes
* P2
  + DataFrames
  + Statistical summaries from DataFrames
* P3
  + Pandas Plotting1
  + Train/Test splitting
  + Model training and testing2
  + Predicting class or regression value for unseen data point

References

1. <https://pandas.pydata.org/pandas-docs/stable/user_guide/visualization.html>
2. <https://scikit-learn.org/stable/modules/generated/sklearn.tree.DecisionTreeRegressor.html>