## Real Estate Price Machine Learning with Python

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```
import pandas as pd
melb_houses = pd.read_csv('/Users/andrewlevine/Downloads/melb_data.csv')
melb_houses = melb_houses.dropna(axis = 0)
melb_houses.columns
## Index(['Unnamed: 0', 'Suburb', 'Address', 'Rooms', 'Type', 'Price', 'Method',
          'SellerG', 'Date', 'Distance', 'Postcode', 'Bedroom2', 'Bathroom',
##
          'Car', 'Landsize', 'BuildingArea', 'YearBuilt', 'CouncilArea',
##
          'Lattitude', 'Longtitude', 'Regionname', 'Propertycount'],
##
##
         dtype='object')
y = melb_houses.Price
melb_predictors = ['Rooms', 'Bathroom', 'Landsize', 'Lattitude', 'Longtitude']
x = melb_houses[melb_predictors]
from sklearn.tree import DecisionTreeRegressor
melb model = DecisionTreeRegressor(random state = 1)
melb_model.fit(x,y)
## DecisionTreeRegressor(random state=1)
print("\nMaking predictions for the five following houses:\n",
x.head(),
"\nThe predicted prices for these fives houses are as follows: \n",
melb_model.predict(x.head()))
##
## Making predictions for the five following houses:
      Rooms Bathroom Landsize Lattitude Longtitude
## 1
         2
                 1.0
                         156.0 -37.8079
                                             144.9934
## 2
         3
                 2.0
                                 -37.8093
                                              144.9944
                          134.0
                                 -37.8072
## 4
         4
                 1.0
                          120.0
                                              144.9941
## 6
         3
                 2.0
                          245.0
                                 -37.8024
                                              144.9993
## 7
         2
                 1.0
                          256.0
                                  -37.8060
                                             144.9954
## The predicted prices for these fives houses are as follows:
## [1035000. 1465000. 1600000. 1876000. 1636000.]
```