

Reading Assignment: Learn this tutorial about the K-Nearest Neighbourhood (K-NN)

[K-Nearest Neighbours - GeeksforGeeks](#)[Links to an external site.](#)

KNN is a technique used to estimate new values based on the similarity of known ones.

In this assignment, your company wants you to estimate the selling price of a customer's building

The price you calculate will be given to the customer as the company selling price recommendation.

You decide to use Data Science techniques such as the K-Nearest Neighbor.(KNN)

You will need to:

- Import the necessary libraries from your program. (You can use the model *class* `sklearn.neighbors.KNeighborsClassifier`, part of the package [sci-kit-learn 1.1.1](#)[\(Links to an external site\)](#) or any other.
- Train/test the model with the data included in the module (`cal_housing.tgz`).

The house you need to estimate the value for has the following properties:

longitude: 120.75

latitude: 39.34

housingMedianAge: 35.5

total rooms: 260

totalBedrooms:120

population:540

households: 12

medianIncome:1.8 K

BuildingValue: ?

What is the recommended price?

You need to provide the code, properly commented.

You could use the following packages (if you like):

```
from matplotlib.pyplot import sca
from sklearn import datasets, neighbors
from sklearn.neighbors import KNeighborsRegressor

from sklearn.model_selection import train_test_split
```

```
from sklearn.preprocessing import StandardScaler
```

```
import numpy as np
```

```
import pandas as pd
```