

Part 1: Predict the price of a house

Dataset: <DS - Assignment Part 1 data set.xlsx>

Link: <https://www.dropbox.com/sh/aypq6h3254207bs/AACzMLvo-XtK9sYAAma6FW0la?dl=0>

Problem statement: The goal is to understand the relationship between house features and how these variables affect the house price.

Using more than one model, predict the price of the house using the given dataset. Please compare the accuracy of the models along with the drawbacks of each technique's assumptions before recommending the final prediction model.

Part 2: Product matching

Attached is sample product lists from Flipkart & Amazon

<DS - Assignment Part 2 data set.zip>

Link: <https://www.dropbox.com/sh/aypq6h3254207bs/AACzMLvo-XtK9sYAAma6FW0la?dl=0>

Problem statement:

Using ML/DL techniques, match similar products from the Flipkart dataset with the Amazon dataset. Once similar products are matched, display the retail price from FK and AMZ side by side. Please explore as many techniques as possible before choosing the final technique.

You may either display the final result in single table format **OR** You may create a simple form where we input the product name and the output of prices of the product from both websites are displayed.

For example:

FDT Women's Leggings from Flipkart should be matched with ***FDT WOMEN'S Leggings Pants from Amazon***

Once we input the product details, the output should be as follows:

Product name in Flipkart	Retail Price in Flipkart	Discounted Price in Flipkart	Product name in Amazon	Retail Price in Amazon	Discounted Price in Amazon
FDT Women's Leggings	699	309	FDT WOMEN'S Leggings Pants	698	362

Guidelines:

1. Please write modular, reusable, extensible & scalable code using best coding practices
2. Share your code, output file and readme files on GitHub publicly, to make sure we can review it
3. Mention all your assumptions and the rationale behind them
4. Please add comments and descriptions where applicable

Please note: If you prefer something other than Python/R, please feel free to use that coding language.

The datasets shared are from free open data sources. We are not affiliated with Flipkart or Amazon. The analysis submitted by you will be used only for evaluation of your analytical skills and will not be published or shared anywhere.