

Ski Resorts

Data Analytics

Final Project

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Python analysis

Problem statement

Skipass are expensive for majority of people, we need to find the best value for money in our trip.

Solution

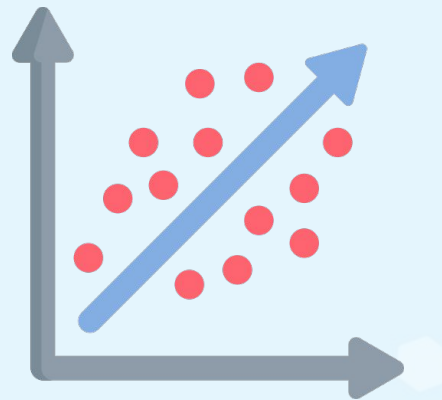
There are two main factors contributing to the price:

1. Resort size and slope kilometres

	Linear Regression	SVR	Random Forest Regressor	K Neighbors Regressor	MLP Regressor
0	0.404122	0.536318	0.539514	0.530331	0.567423

2. Features and facilities (hotels, restaurants...)

	Linear Regression	SVR	Random Forest Regressor	K Neighbors Regressor	MLP Regressor
0	0.401861	0.324296	0.580391	0.520637	0.421497



Key challenges during the project

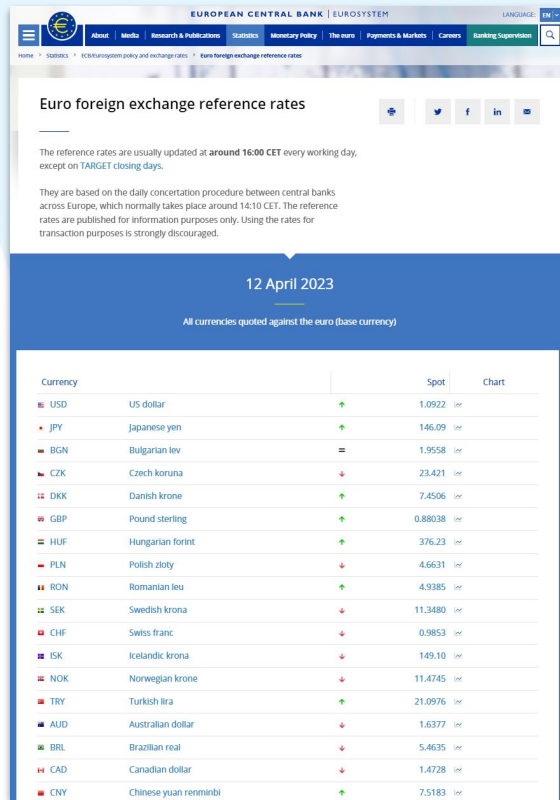
Problem statement

In order to do regression analysis against skipass price, I needed all prices in the same currency. Dataset used contained **skipass price information in multiple currencies** (with currency name but no currency code) so I needed to convert to EUR.

Solution

I tried using Forex-Converter Python library but there was no relation between currency name and code.

I decided to do **web scraping** from the European Central Bank official page which refreshes on a daily basis.



The screenshot shows the 'Euro foreign exchange reference rates' page from the European Central Bank. It lists various currencies and their corresponding spot rates against the Euro. The table includes columns for the currency name, its code, and the spot rate. The data is as of 12 April 2023.

Currency	Spot	Chart
USD US dollar	1.0922	See
JPY Japanese yen	146.09	See
BGN Bulgarian lev	1.9558	See
CZK Czech koruna	23.421	See
DKK Danish krone	7.4596	See
GBP Pound sterling	0.88038	See
HUF Hungarian forint	376.23	See
PLN Polish zloty	4.6631	See
RON Romanian leu	4.9385	See
SEK Swedish krona	11.3480	See
CHF Swiss franc	0.9853	See
ISK Icelandic krona	149.10	See
NOK Norwegian krone	11.4745	See
TRY Turkish lira	21.0976	See
AUD Australian dollar	1.6377	See
BRL Brazilian real	5.4635	See
CAD Canadian dollar	1.4728	See
CNY Chinese yuan renminbi	7.5183	See

Data Visualization



Thank you!

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