

Capstone Project

Houseboat in Amsterdam

Yevhen Dubovyk

June 2021



Introduction.

I'm not an expert in business, so I don't want to solve financial problems using data analysis tools. However, I really love to travel and to stop at the most unusual places.

Next summer, together with our friends, we are planning to rent a houseboat for 2 months in Amsterdam – probably the most suitable city for this in all of Europe.

Description of the problem.

Before the houseboat renting in Amsterdam, we need to decide which one to choose. As it turned out, there are more than a hundred of them. They are all different, have different rental prices, and are located in different parts of the city.

The location is very important for us. We want our house to be located in a comfortable area for life, close to places we are interested in. For example, gyms and spas (we will be there for two whole months, we would not want to lose the shape :)), good food stores, museums and historical sites, restaurants with Japanese cuisine (we love fish and seafood), parks, and, finally, coffee shops with marijuana (after all, this is Amsterdam :)).

Thus, we are faced with several tasks.

- to find a list of all houseboats available for rent;
- to choose from them the most suitable for us in terms of price, visitor reviews, etc. – in terms of the "internal" characteristics of houseboats;
- to find out what places are around these houseboats;
- on the basis of data on the surrounding places, to understand what clusters exist and in which clusters certain houseboats are located – to find out the "external" characteristics of houseboats;
- to choose the houseboat that suits us best on the basis of its "internal" and "external" characteristics.