

House price in the USA

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Motivations

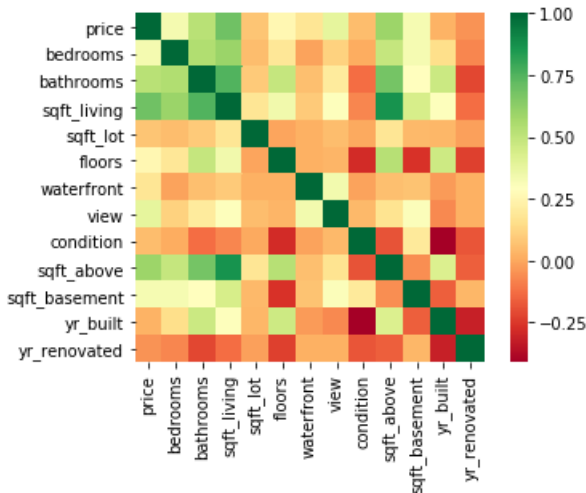
- The real estate markets, like those in the USA, present an interesting opportunity for data scientists to analyze and predict where property prices are moving towards.
- Prediction of property prices is becoming increasingly important and beneficial.
- Property prices are a good indicator of both the overall market condition and the economic health of a country.

The problem

In this project we want to estimate the **price** of an house that have to been sold based on information regarding houses that have been previously sold. These information include the **location** of the house, its **surface**, its **condition**, the **number of rooms** and the **number of floors** and the **year** of construction.

I use the freely available data set present on Kaggle at
<https://www.kaggle.com/shree1992/housedata>

Correlation between the data



⇒ the most correlated with price are **sqft living** and **sqft above** ⇒ I will focus on them !!!

sqft living vs price



there is a **linear correlation** between these two variables !!

sqft above vs price



there is a **linear correlation** between these two variables !!

Conclusions

- We found a linear correlation between the price of the house and its surface (living and ground floor)
- It would be interesting to extend such analysis taking into account also different independent variables.
- It would be interesting to extend such analysis taking into account a bigger data set