Proposal

Question/need:

The real estate market has been in a growth phase for several years, which means that you can still find properties at very attractive prices, but with good chances of increasing their value in the future.

- We want to help customers to find the best real state with the lowest price by predicting the price of house based on its features.

Dataset:

- The dataset consists of lists of unique objects of popular portals for the sale of real estate in Russia. More than 540 thousand objects.

- Features: The dataset has 13 fields, and the Price is our target.

Feature	Description
date	date of publication of the announcement
time	the time when the ad was published
geo_lat	Latitude
geo_lon	Longitude
region	Region of Russia. There are 85 subjects in the country in total
building_type	Facade type. 0 - Other. 1 - Panel. 2 - Monolithic. 3 - Brick. 4 - Blocky. 5 - Wooden
object_type	Apartment type. 1 - Secondary real estate market; 2 - New building;
level	Apartment floor
levels	Number of storeys
rooms	the number of living rooms. If the value is "-1", then it means "studio apartment"
area	the total area of the apartment
kitchen_area	Kitchen area
price	Price. in rubles

Tools & Libraries:

- Preprocessing: NumPy and Pandas
- Models: Sklearn
- Visualization: Matplotlib and Seaborn

MVP Goal:

- Load Libraries: Import all needed libraries for the project.

- Data Wrangling: Load the file and check. Such as (Null values, Outliers)

- Data Cleaning: Removing unwanted features and clean the data.

- Data Exploratory: Analyze and explore the relationship between the features and draw some visualizations.

- Data Modeling: Generate and evaluate and test the model.

- Data Limitation: Discuss the limitation of the model and the dataset.

- Conclusion: Discuss the findings.