

1. Project Management and Process

We organized this project in four main parts: **Milestone 1**, **Milestone 2**, **Milestone 3**, and the **Finalized Milestone**.

1.1 How We Worked

We shared the tasks between team members. In the first three milestones, we followed these steps:

- We studied and cleaned the data.
- We added new features and tested different model performances.
- We made videos to explain our work. We shared these videos with our friends to stay updated.

1.2 Tools and Collaboration

We used **GitHub** to work together.

- **Branches:** We opened different branches for every milestone. Later, we merged them. This way, we did not have any code conflicts.
- **GitHub Projects:** We used this tool to follow our tasks and project progress.

1.3 Finalized Milestone

After the first three milestones, we worked together for the **Finalized Milestone**.

- We did small tasks together to finish the project.
- We merged all our work into the final version.
- We found and fixed important problems like **data leakage**.
- We added extra error checks to make the project better.

1.4 Project Structure and Links

Our project folder structure is like this:

ML-Project/

├── data/

| ├── raw/ # Original Airbnb data

| ├── processed/ # Data created for different steps and methods

| └── finalized/ # Final data for the last models

├── notebooks/

| ├── Milestone-1/ # Data cleaning and first NLP tasks

| └── Milestone-2/ # Supervised and Unsupervised models

| | — Milestone-3/ # Advanced NLP (Word2Vec, BERT)
| | — Finalized/ # Final model and Blind Experiment
| — models/
| — outputs/
| — Report_airbnb_ML_Project.pdf/
| — requirements.txt # Necessary libraries

You can find all files and links here:

- **Full Project (Google Drive):**

<https://drive.google.com/drive/folders/1fg3D9G6sZGDv7VZ2u5e-JvXaOsBQBtyo?usp=sharing>

- **Data Folders (Google Drive):**

<https://drive.google.com/drive/folders/1n4ThTy4YY98WaoPYM-R3djpFwEDYR5PY?usp=sharing>

GitHub Repository:

<https://github.com/MuhammedFatihAsan/ML-Project>

- *Note: Our project is public with an **MIT License**. You can check our commits and the **README.md** file for local setup instructions.*

- **Project Report(Google Drive):**

https://drive.google.com/file/d/1bmX0Lqh_h8XQDrD04JPI_biaAC_AvI7V/view?usp=sharing