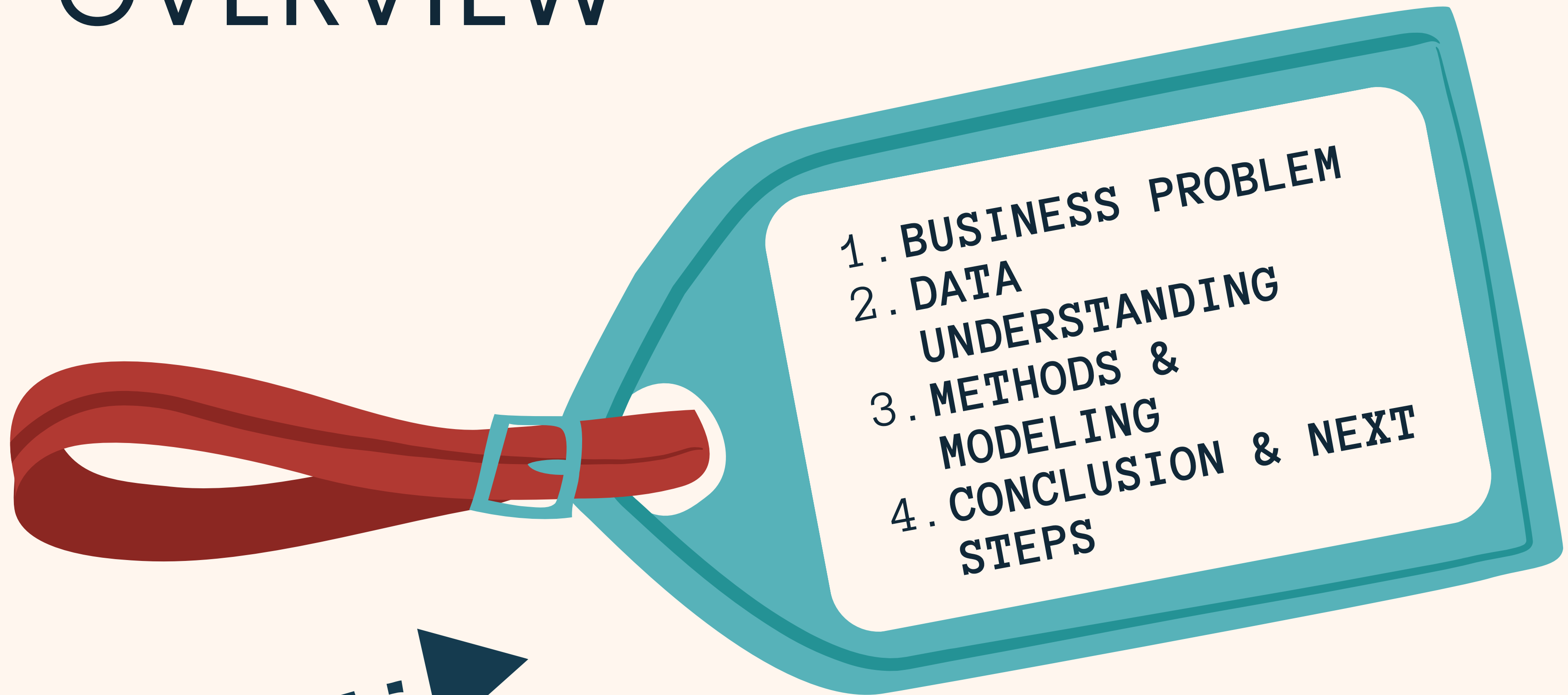


MILAN AIRBNB RECOMMENDER

Presented by: Anat Jacobson



OVERVIEW



ABOUT ME

Making sure that your next vacation stay is hassle-free and enjoyable.

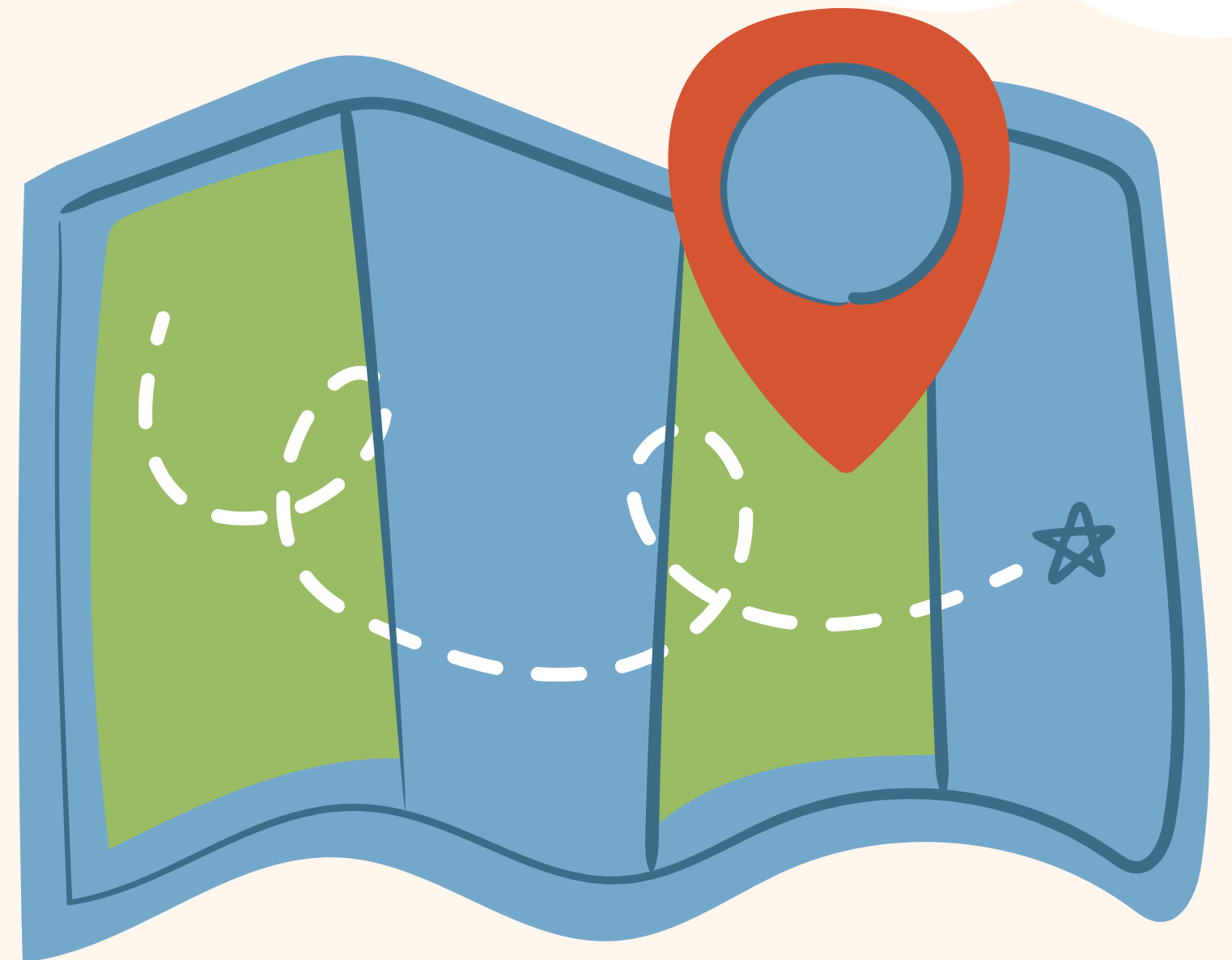
Data scientist on the weekdays,
travel officianado on the side.



BUSINESS PROBLEM

Stakeholder: Individuals looking for there next Airbnb

Business Problem: Many Airbnbs to choose from but no system for help



DATA



Reviewers

18.6k Individuals



Reviews

45K Reviews



Timeframe

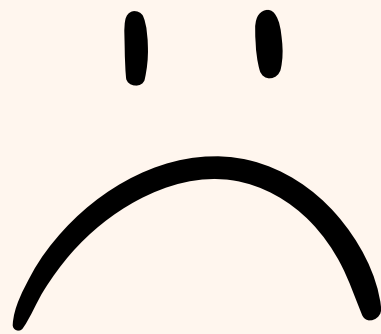
12 yrs of reviews



Airbnbs

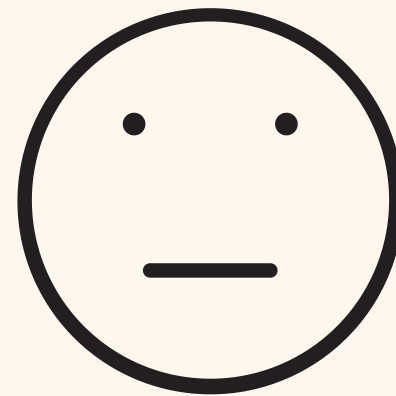
9.2k across Milan

NLTK VADER ANALYZER



Comments: Host
Cancelled

Score: 1



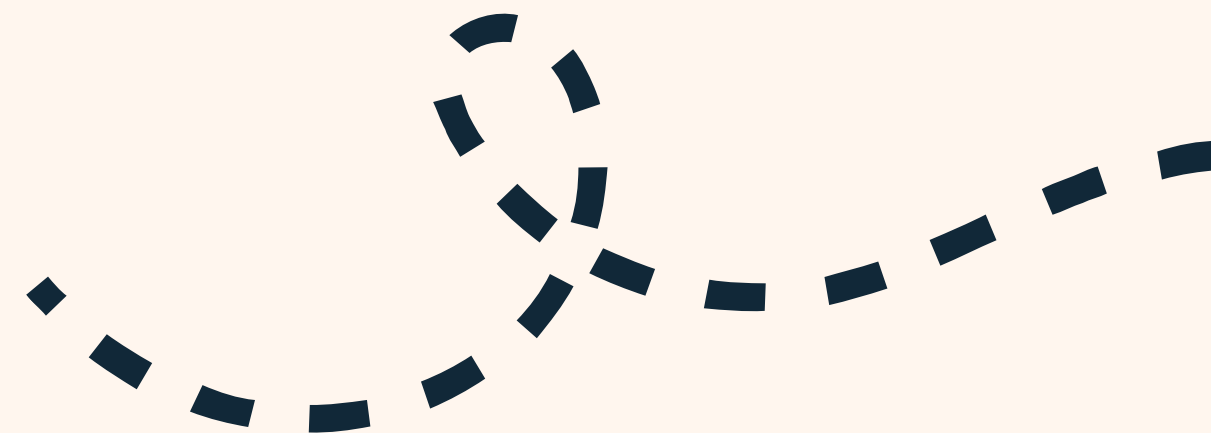
Comments: Old world
charm... couch not
comfortable

Score: 2



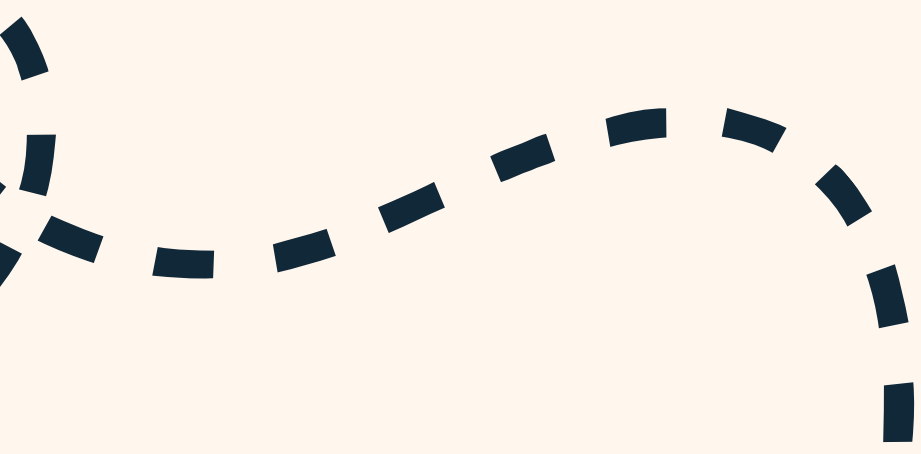
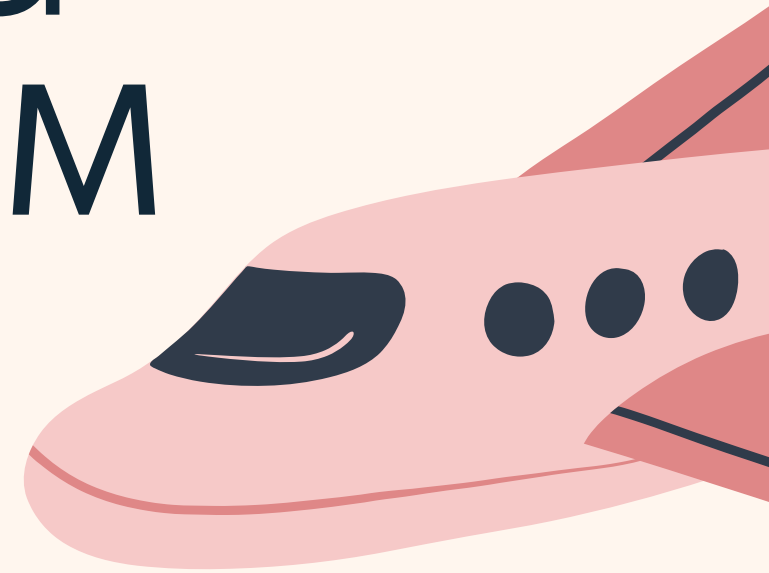
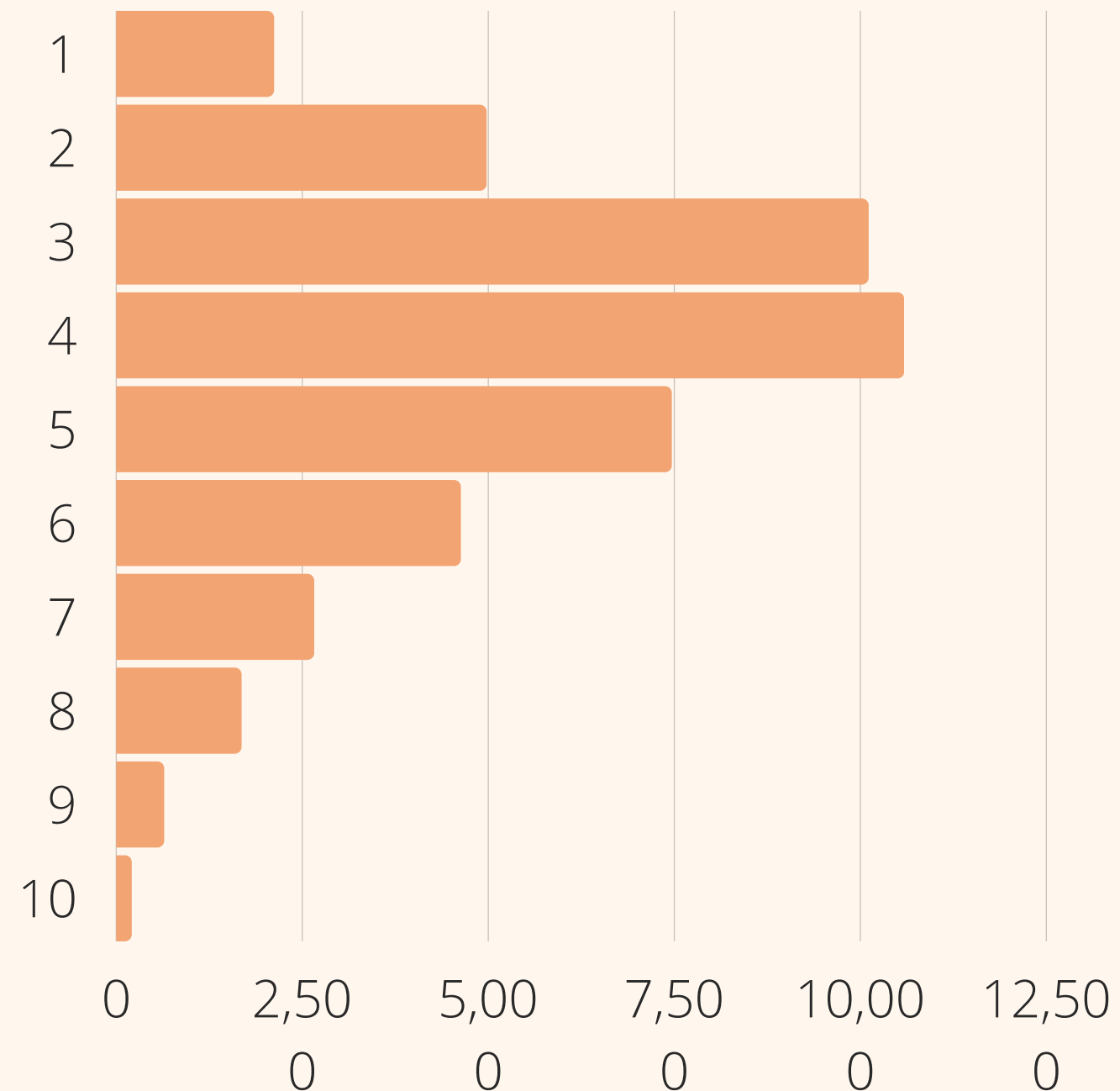
Comments: Perfect

Score: 10

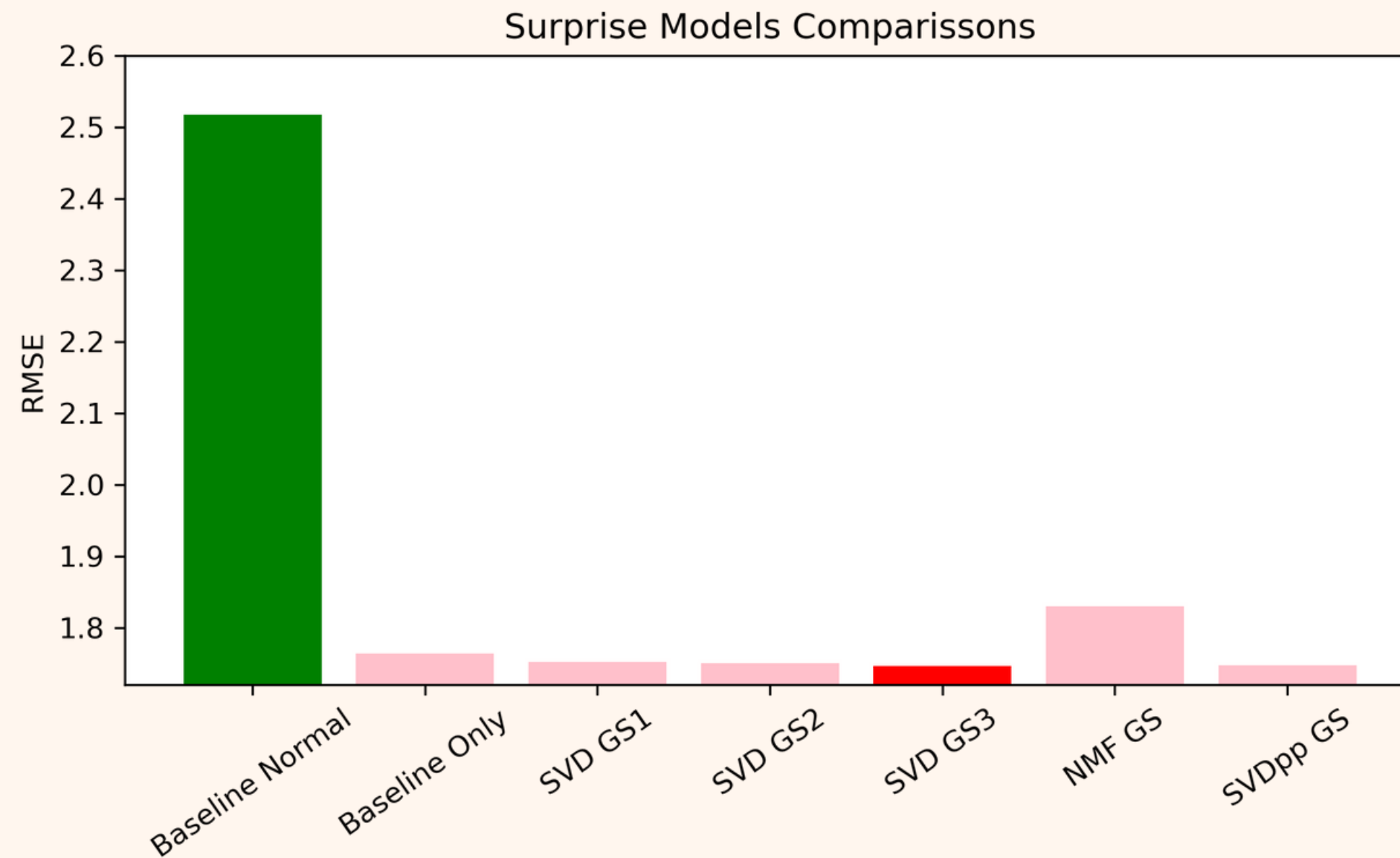


COLLABORATIVE FILTERING SYSTEM USER BASED SYSTEM

Recommendations based on
users with similar ratings



MODEL COMPARISONS



Best Model: RMSE 1.746



RECOMMENDATIONS

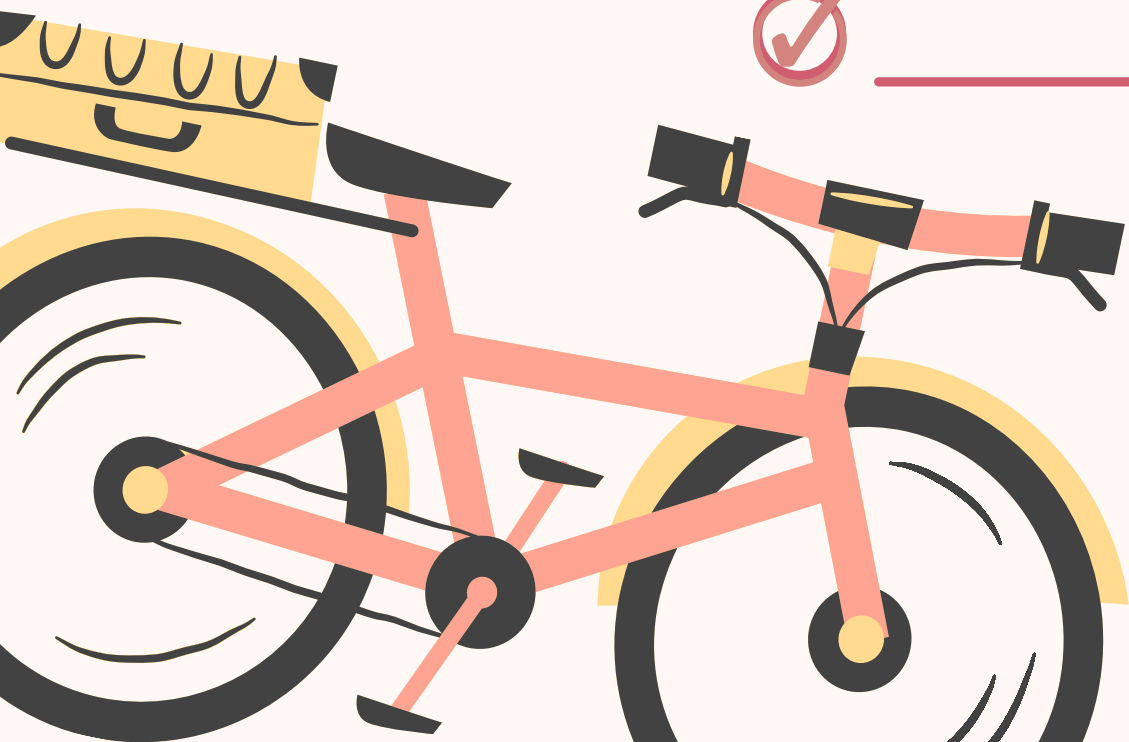
User: 3479650

Reviewed

- ☒ Entire Apt
- ☒ Responsive host
- ☒ Open space, light
- ☒

Recommended

- ☒ Entire Apt
- ☒ Responsive host
- ☒ Bright, cozy, comfortable
- ☒ Hair Dryer, hot water



STREAMLIT



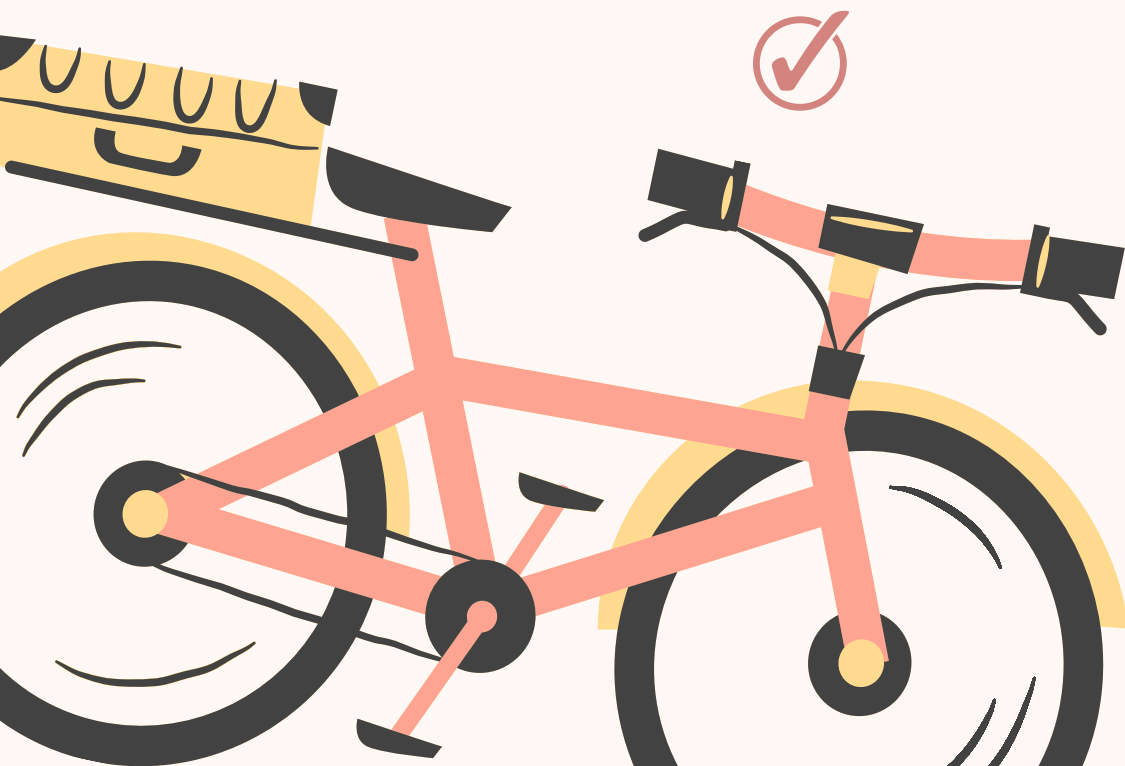
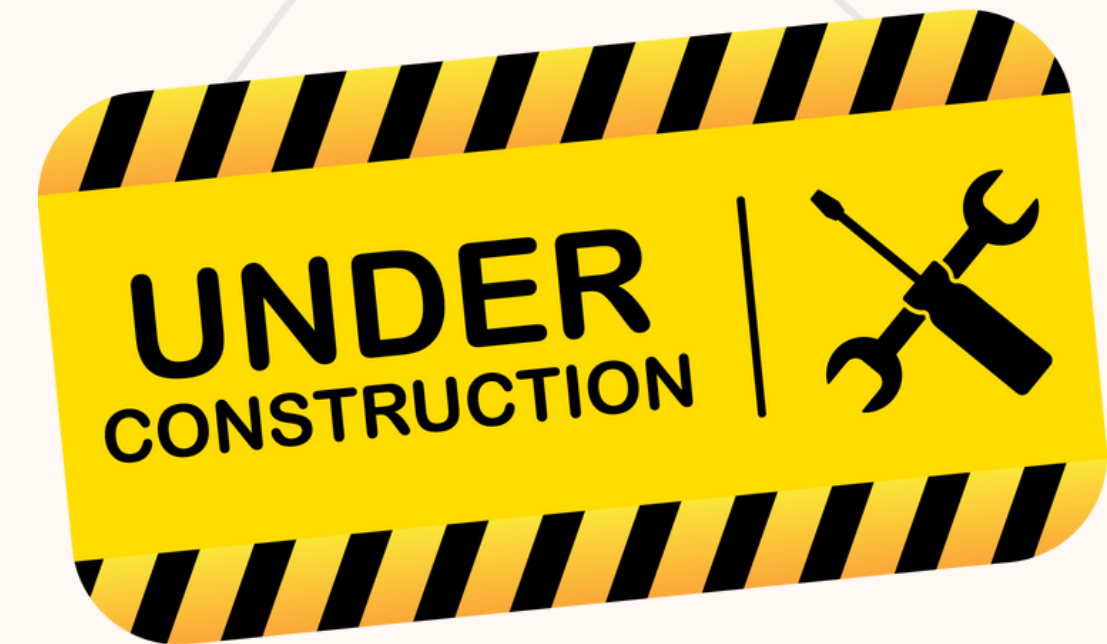
Milan Airbnb Recommendation System

Existing Reviewer

Please enter your airbnb reviewer ID

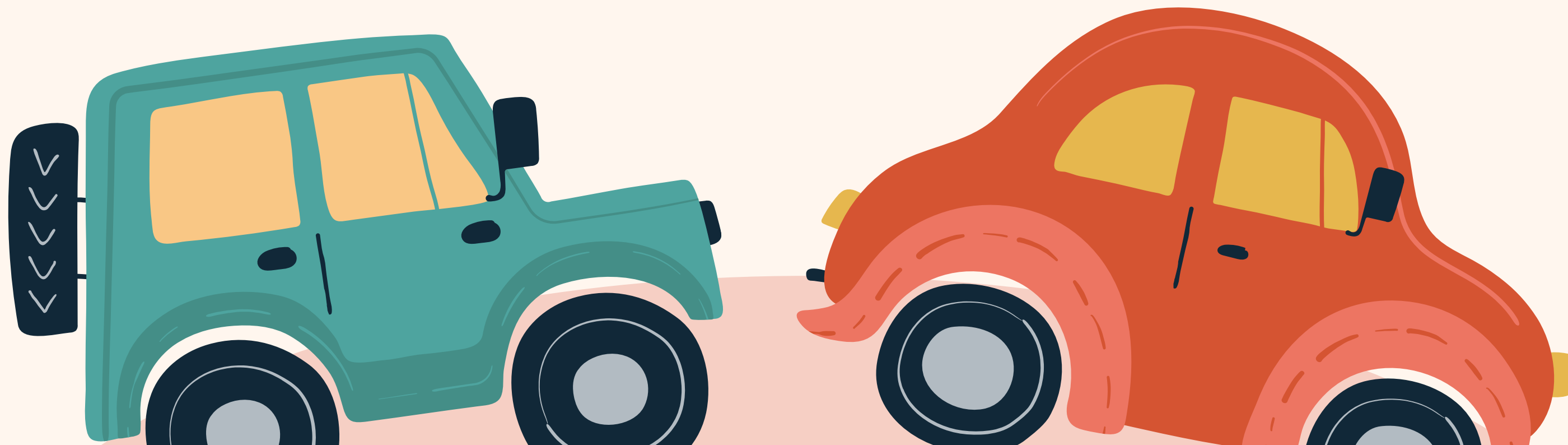
How many recommendations would you like in Milan?.

- +



CONCLUSION AND NEXT STEPS

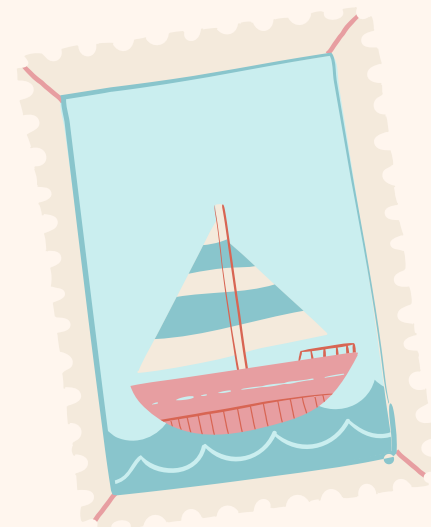
- Add in filtering system for types of Airbnb
- Content based system
- Translate emojis to text
- Analyze other cities
- Deploy streamlit





THANK YOU!

Do you have any questions?



Contact me



ANATABIGAIL@GMAIL.COM



[GITHUB PROFILE](#)