

Germany Rental Prices Analysis and Search Assistant

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Agenda

- **Our Project Story**
- **Introduction**
- **Dashboards**
- **Data Gathering**
- **Challenges**
- **Dashboard Link**





Eddy



Sainath



Reyhaneh

Our Project Story



As an expat team, we all faced the challenge of finding a suitable place that matched our budget.

Our dashboards and data pipeline aim to make apartment searching easier for everyone.





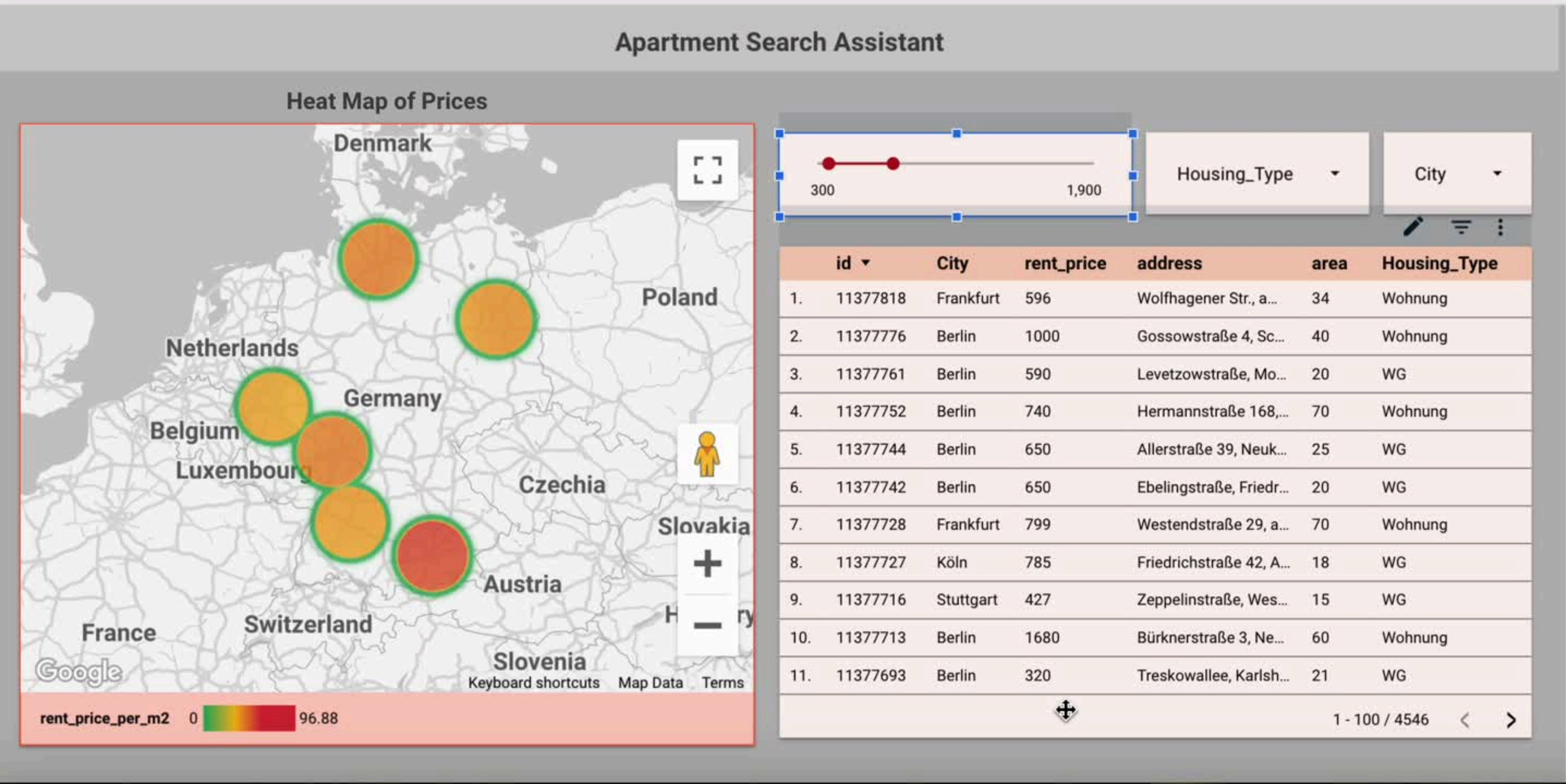
Introduction

Our project delves into the rental markets of Germany's major cities, using data-driven insights to:

- Empower tenants with Market Knowledge
- Suggest apartments based on affordability
- Make it easier for students and new comers to find room
- Compare agencies and private landlord prices















Dashboards



Data Gathering

WG-GESUCHT.de

	<div>Wohngemeinschaft in Stuttgart</div> <div>2er WG Stuttgart Mitte Wangener Straße Ost 27</div> <div><div>775 €</div><div>05.08.2024</div><div>100 m²</div></div> <div><div></div><div>Verifiziertes Unternehmen ✓ Spotahome</div><div>Online: 17.05.2024</div></div>	 
	<div>(Verfügbar 1-24 Monate) - Über den Dächern Stuttga...</div> <div>1-Zimmer-Wohnung Stuttgart Mitte Alexanderstraße</div> <div><div>1470 €</div><div>13.12.2024 - 31.05.2025</div><div>42 m²</div></div> <div><div></div><div>Verifiziertes Unternehmen ✓ Homelike Internet GmbH</div><div>Online: 16.07.2024</div></div>	 
	<div>Wohngemeinschaft in Stuttgart</div> <div>2er WG Stuttgart Mitte Weimarstraße West 19</div> <div><div>820 €</div><div>05.01.2025</div><div>87 m²</div></div> <div><div></div><div>Verifiziertes Unternehmen ✓ Spotahome</div><div>Online: 3 Stunden</div></div>	 

Data Source: wg-gesucht.de

Methodology: Web Scraping, API

Tools: Python, Google Cloud, Looker Studio, Spreadsheets

Cities:

Berlin
Hamburg
Cologne
Stuttgart
Munich
Frankfurt

Total Entries: Above 4500





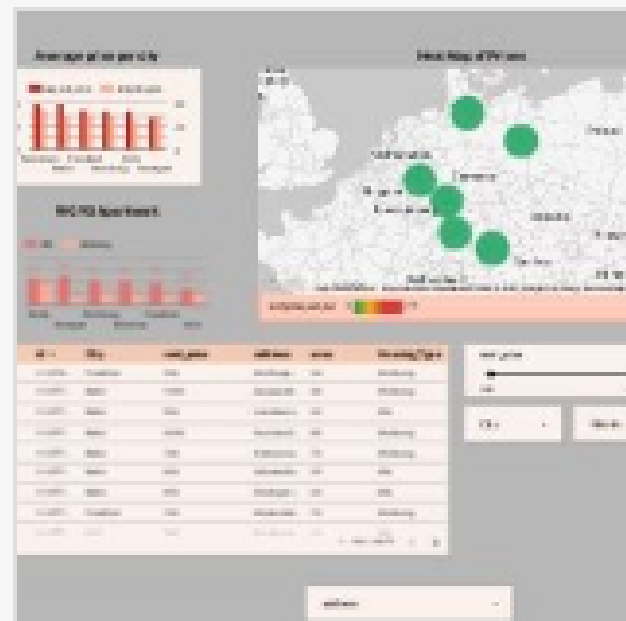
Challenges

Data Collection is like mining for Gold! So these points were our main challenges:

- Data accessibility is limited by logins, CAPTCHAs, bot blocking tools, and rate limits.
- Scraped data lacks structure, consistency, and completeness.
- Raw data requires filtering and structuring to eliminate inconsistencies and inaccuracies.
- Integrating data from diverse sources presents matching challenges.



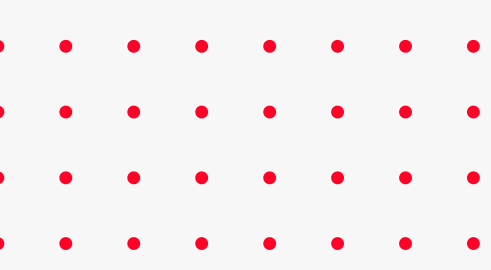
You Can Check Out Our Dashboard Here:



Final_Project_Housing

Looker Studio turns your data into informative dashboards and reports that are easy to read, easy to share, and fully customizable.

 Looker Studio



Thanks for Listening! Let's answer your questions

