



# TourMate: Event Planning Simplified

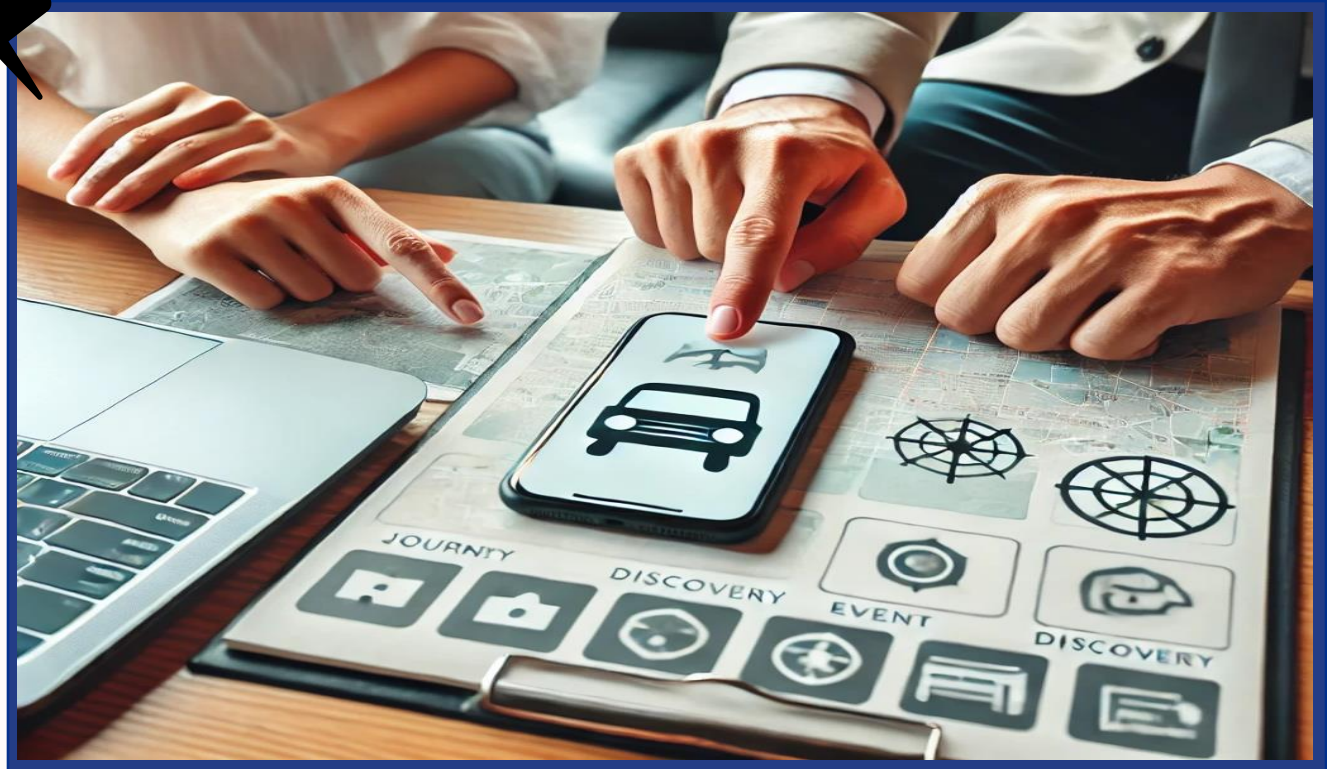
A Business Powered by Real-Time Event, Weather, and Location Data



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# TourMate: Overview



## Business Concept

**TourMate is a web-based platform that provides users with event information and relevant travel details.**

**The app helps users find the best events and simplifies their trip planning process by providing real-time weather data, nearby airport locations, restaurants, and hotels.**



## Why TourMate?

**Our platform ensures that users not only discover new events but also plan their trips efficiently with integrated data from multiple sources.**



## Location

**All Cities in Germany**



# APIs used in **TourMate**

***ticketmaster***

**We use this API to retrieve real-time event data, including event names, dates, venues, and genres.**

**Which is critical for users to discover events and plan their trips around them.**



**Google Maps**

**This data ensures users can make seamless travel arrangements and find essential services near their event destinations.**



**OpenWeather**

**By showing users the expected weather, they can plan ahead for travel and event participation, ensuring they're well-prepared.**



# TourMate: Data Cleaning, Processing and Coding Challenges



- Combining and aggregating the API Data
- Costs regarding the API Usage
- Incorporate our cleaned and processed data into the Flask App

- First gather and clean data from each API and after that merge
- Avoid unnecessary API calls and endless for Loops
- Don't hardcode the variables

- Improved Data Efficiency and Accuracy
- Reduced Costs
- Improved Maintainability and Scalability





# TourMate: Statistics and Visualizations

## Target Groups & Locations:

Enhance service offerings in Berlin, Cologne, and Hamburg to capitalize on high event activity.

## Genre Preferences:

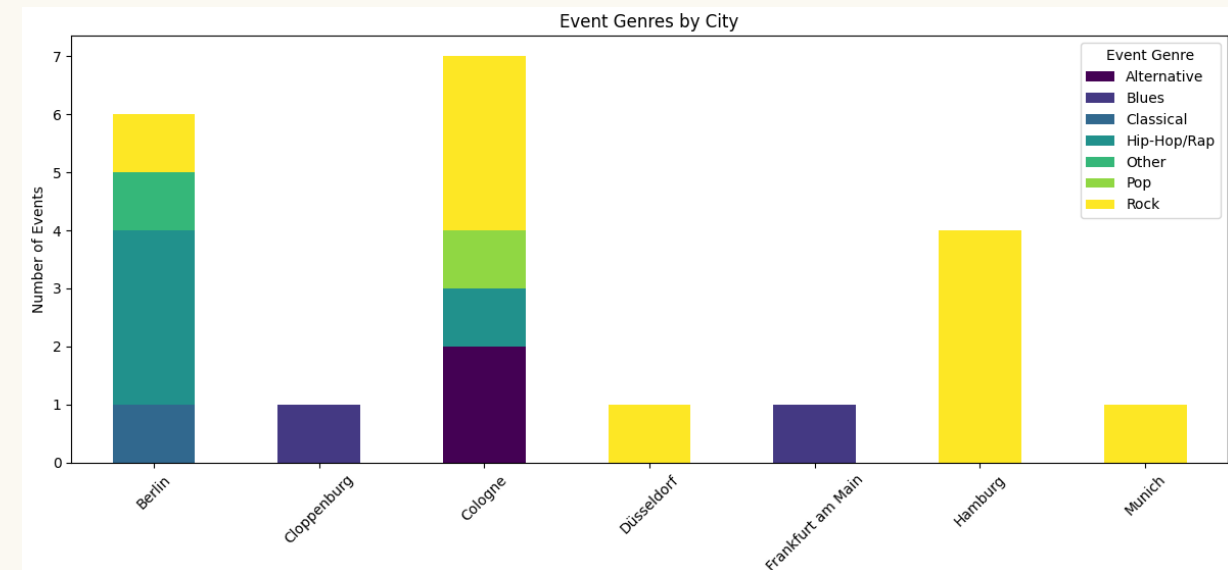
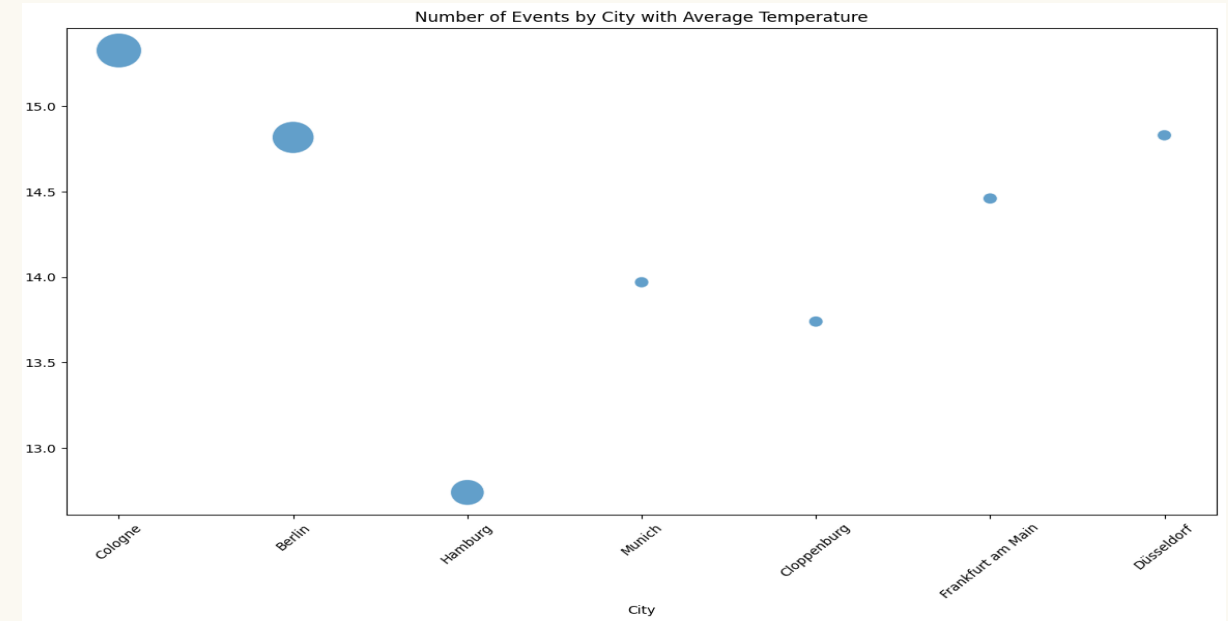
Specialize in Rock and Hip-Hop events, tailoring services to meet artists' specific needs and preferences.

## Strategic Growth:

Identify and expand into cities with fewer events, offering unique services to attract new opportunities.

## Streamlined Planning:

Utilize map visualizations to optimize logistics and enhance the overall experience for artists.





# TourMate: Statistics and Visualizations

```
Average Time to Airport (min): 24.19  
Average Distance to Airport (km): 18.92
```

```
(np.float64(14.344705882352942), 'clear sky')
```

## Travel Logistics:

Optimize artist transport with average airport time/distance data.

## Weather Considerations:

Use forecasts to enhance logistical planning.

```
Events per City:  
Venue City  
Cologne      7  
Berlin       6  
Hamburg      4  
Munich       1  
Cloppenburg  1  
Frankfurt am Main 1  
Düsseldorf   1  
Name: count, dtype: int64
```

```
Events per Genre:  
Event Genre  
Rock      10  
Hip-Hop/Rap  4  
Blues      2  
Alternative  2
```



# TourMate: Website overview

A platform for event-goers to access real-time travel and event data in one place.



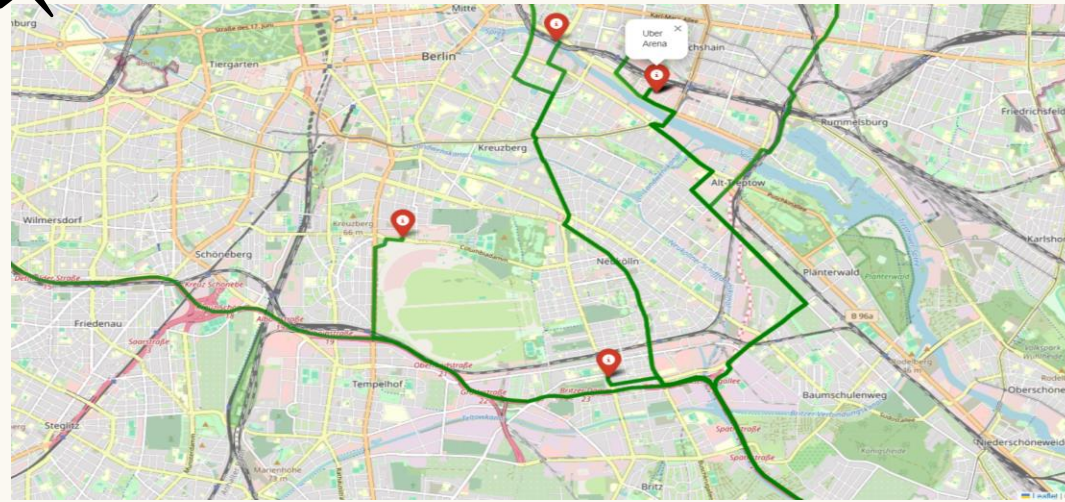
## Features

- Interactive Event Map
- Nearby Airports, Hotels, and Restaurants
- Live Weather Forecasts



## User Experience

- Simple, intuitive interface for quick trip planning.



## Visual:

**Screenshot of the Website** with arrows or labels highlighting the main features (map, weather data, nearby amenities)



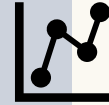
# TourMate: Significance and Future Plans



Target Market:  
young, middle to  
high-income (higher  
class  
restaurants/hotels)



Income stream: Ad  
revenue and the  
possibility of  
collaborating with  
hotels and restaurants



APIs enable the online  
travel agency platform,  
helping users to  
streamline their event  
planning



Possibility to branch out  
to  
new markets



Leverage data to  
provide artists  
with tailored  
travel and  
accommodation  
services





# TourMate: Our Journey and Vision



## Idea

We aimed to create a platform that simplifies event travel by integrating data from multiple sources.



## Challenges

We faced issues with missing data, inconsistent formats and API rate limits



## Solutions

We implemented data cleaning, standardization, and fallback strategies to overcome these challenges.



## Final Product

TourMate now provides users with real-time event, weather, and location data in one platform.