Weather conditions and Music Preferences

Advanced Methods of Software Engineering

Kilian Wenker · 2023-06-28

Introduction

Briefly introduces the topic and its significance. Highlights the data science question: Does weather influence music preferences?

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat.

Datasources

1. Weather data
- Daily Weather Data for Germany
- Source: Deutscher Wetterdienst (DWD)
- Format: *CSV / KL2000*

2. Music data
- Daily Spotify Charts for Germany
- Source: *Kaggle*
- Format: *CSV*

- Song's Audio Features
- Source: *Spotify*
- Format: *JSON*

Preprocessing

Explains the steps taken to obtain and preprocess the data.

Correlations

Showcases Correlations in the data.

Random Forest Regressor

Discusses the ML model used for prediction. Highlights the model's performance evaluation. Shows Barchart learings and excerpt example of a tree.

Song Recommendation

Explains how to use the RFR model. Showcases a Song Recommendation.

Conclusion

Summarizes the main findings and answers DS question. Mentions limitations and areas for further research.

Q&A

Allocates time for questions and open the floor for discussion. Engages with the audience and address any queries or feedback.