Project Abstract

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Jena Climate

Team Members

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Description

The Jena Climate dataset comprises 14 meteorological measurements, such as air temperature, atmospheric pressure, humidity, and wind direction, recorded every 10 minutes at the Max Planck Institute for Biogeochemistry in Jena, Germany, from January 1st, 2009, to December 31st, 2016.

Research Questions

Our project aims to analyze the Jena Climate's historical trends using time series analysis. Key questions include:

1. How have seasonal patterns in Jena's weather evolved over the dataset's time span?
2. Can we identify long-term trends or anomalies in the meteorological data?
3. What practical applications, like weather prediction or climate research, can be derived from this dataset?

Project Tasks and Team Assignments:

Exploratory Time Series Analysis (Collaborative)
Interpretation and Reporting (Collaborative)
Presentation and Visualization (Collaborative)

Data Source

https://www.kaggle.com/datasets/mnassrib/jena-climate