

☒ Upload your own data

Choose a CSV or JSON file

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Limit 200MB per file • CSV, JSON

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Ugaon weather station ...
115.0KB

×

Choose a summarization method

Choose a method

llm

LLM-based detailed summary

Goal Selection

Number of goals to generate

14

110

☒ Add Your Own Goal

Describe Your Goal

how do temperature and humidity show

☒ Add another dataset for the goal

Upload another dataset (CSV or JSON)

Drag and drop file here
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Visualization Library

Choose a visualization library

seaborn

Choose a goal for visualization

how do temperature and humi...

Number of visualizations to generate

3

110

PBL: Adaptive Dashboards Powered by Generative LLMs

By: Nouman Jinabade (R&A), Shivansh Chutani (E&TC), Rika Mallika (E&TC)

Summary

Weather data from the Ugaon weather station

	column	dtype	std	min	max	samples
13	Pressure__Min_	number	6.0589	962.67366	1019.08442	[1011.46592]
14	Ref_et_penman	number	1.5401	1.26635414845871	9.09839724228586	[7.02060321553]
15	Precipitation	number	4.5898	0.0	61.8	[2.8]
16	Relative_humidity__Max_	number	7	48	99	[67]
17	Relative_humidity__Mean	number	13.9605	32.79166666666666	96.83333333333333	[92.125]
18	Relative_humidity__Min_	number	19	11	95	[42]
19	Wind_direction	number	61.5204	0.0	337.5	[135.0]
20	Wind_speed__Max_	number	1	0	8	[1]
21	Wind_speed__Mean_	number	0.8868	0.0	5.458333333333333	[3.1666666666666666]
22	Wind_speed__Min_	number	0	0	4	[2]

Goals (1)

Choose a generated goal

how do temperature and humidity show Downy Mildew

```
goals[goal_questions.index(selected_goal)] Goal Goal(question='how do temperature and humidity show Downy Mildew', visualization='how do temperature and humidity show Downy Mildew', rationale='', index=0)
```

A visualization goal

index	int	0
question	str	'how do temperature and humidity show Downy Mildew'
rationale	str	''
visualization	str	'how do temperature and humidity show Downy Mildew'

Visualizations

Choose a visualization

Visualization 1

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt

# solution plan
# i. Convert date fields to date types
data['Date'] = pd.to_datetime(data['Date'], errors='coerce')

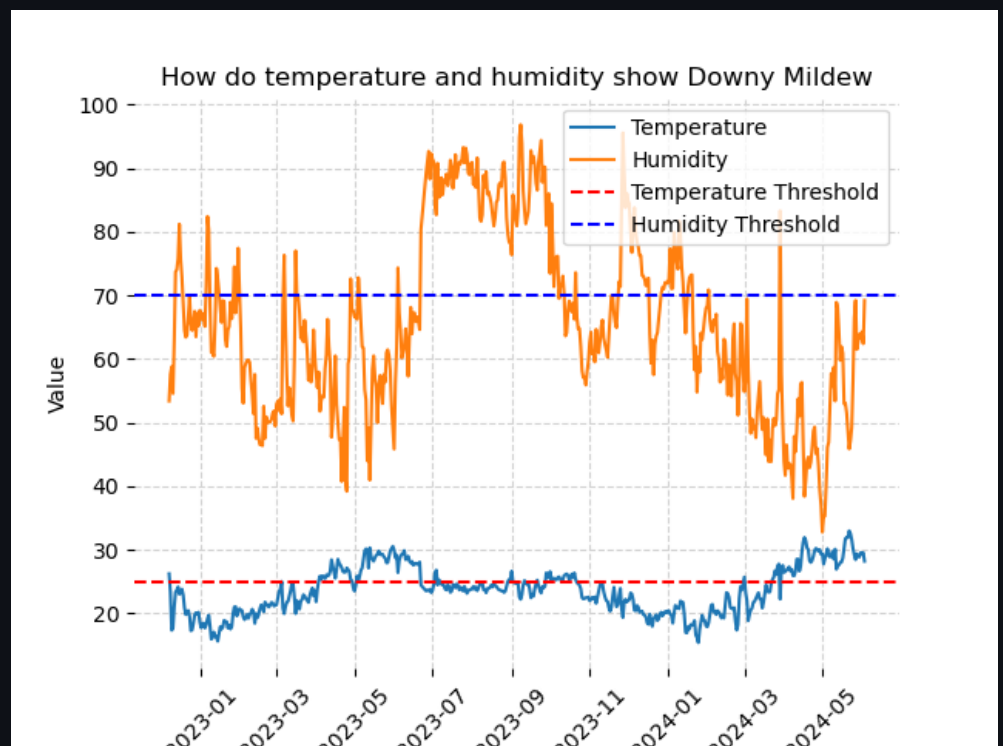
# ii. Drop rows with NaT values
data = data[pd.notna(data['Date'])]

def plot(data: pd.DataFrame):
    sns.lineplot(x='Date', y='Temperature__Mean_', data=data, label='Temperature')
    sns.lineplot(x='Date', y='Relative_humidity__Mean_', data=data, label='Humidity')

    # Add threshold values
    plt.axhline(y=25, color='r', linestyle='--', label='Temperature Threshold')
    plt.axhline(y=70, color='b', linestyle='--', label='Humidity Threshold')

    plt.title('How do temperature and humidity show Downy Mildew', wrap=True)
    plt.xlabel('Date')
    plt.ylabel('Value')
    plt.legend()
    plt.xticks(rotation=45)
    return plt

chart = plot(data)
```



Edited Visualization