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- Overview
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- LIDA's functions
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Sections

Provider Instruction

Choose your provider and Enter API Key:

Provider

Gemini

Gemini API key:

••

Successfully connected to Gemini!

Tasks:

Functions:

Summarize & Goal

LIDA Tasks

Filter Instruction | Requirements

Instruction:

Temperature

0.90

0.00 1.00

Select Model:

gemini-1.5-flash

Upload a data file in .csv format:

Drag and drop file here
Limit 200MB per file • CSV

Browse files

weather.csv 118.6KB

Successfully uploaded a CSV file with 2922 rows of data.

	location	date	precipitation	temp_max	temp_min	wind	weather
0	Seattle	2012-01-01	0	12.8	5	4.7	drizzle
1	Seattle	2012-01-02	10.9	10.6	2.8	4.5	rain
2	Seattle	2012-01-03	0.8	11.7	7.2	2.3	rain
3	Seattle	2012-01-04	20.3	12.2	5.6	4.7	rain
4	Seattle	2012-01-05	1.3	8.9	2.8	6.1	rain

No missing or duplicate values found in the data.

Generate Charts

✷ Insight 0:

`main() Goal Goal(question='How does the average daily temperature (both max and min) vary over time in each location?', visualization='Line chart showing the rolling average of `temp_max` and `temp_min` over time, separated by `location`.', rationale='This visualization uses the `date`, `temp_max`, `temp_min`, ...`

A visualization goal

index int	0
question str	'How does the average daily temperature (both max and min) vary over time in each location?'
rationale str	'This visualization uses the `date`, `temp_max`, `temp_min`, and `location` fields to identify temporal trends in temperature. A rolling average smooths out daily fluctuations and reveals seasonal patterns and potential differences between locations.'
visualization str	'Line chart showing the rolling average of `temp_max` and `temp_min` over time, separated by `location`.'

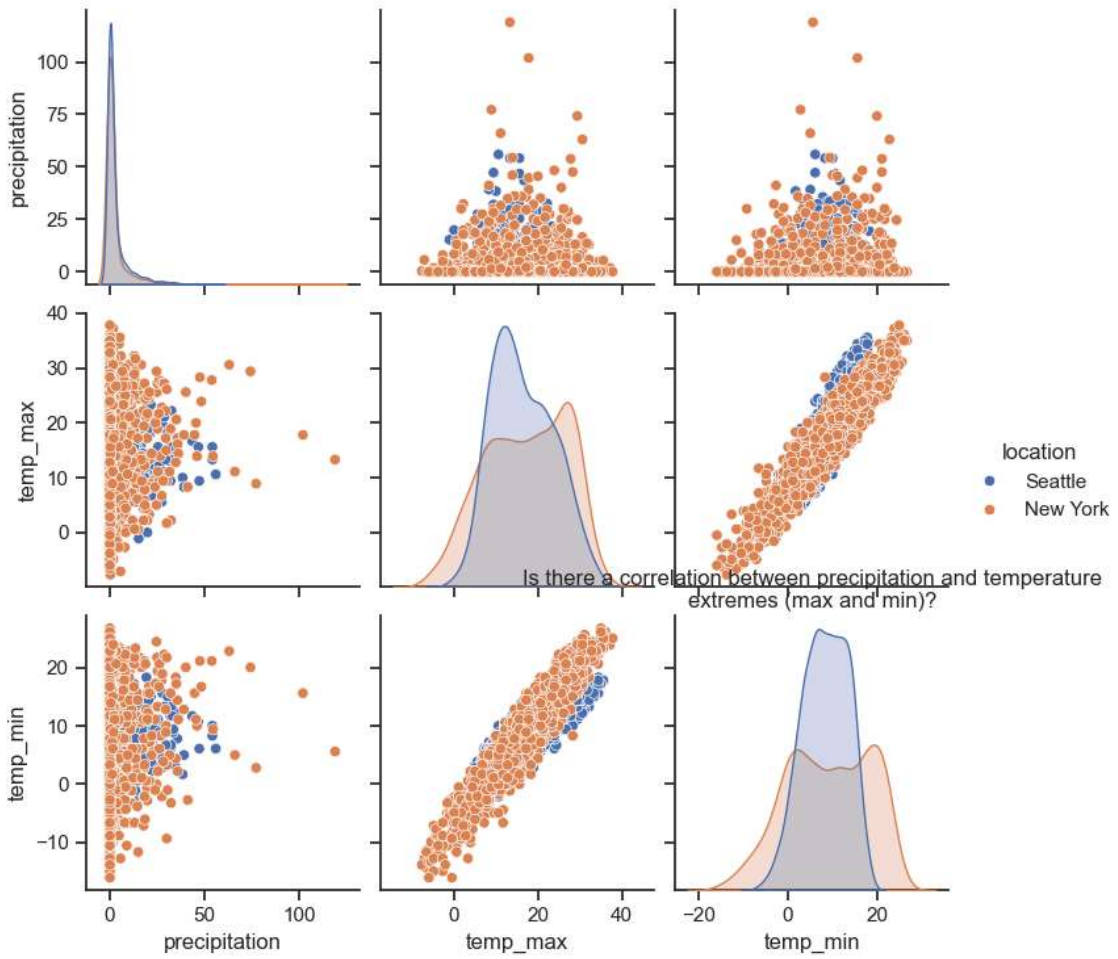
✷ Insight 1:

`main() Goal Goal(question='Is there a correlation between precipitation and temperature extremes (max and min)?', visualization='Scatter plot matrix showing the relationship between `precipitation`, `temp_max`, and `temp_min`.', rationale='This uses `precipitation`, `temp_max`, and `temp_min` to explore potenti...`

A visualization goal

index int	1
question str	'Is there a correlation between precipitation and temperature extremes (max and min)?'
rationale str	'This uses `precipitation`, `temp_max`, and `temp_min` to explore potential correlations. A scatter plot matrix allows for the simultaneous examination of pairwise relationships, revealing potential linear or non-linear trends.'

visualization str	'Scatter plot matrix showing the relationship between `precipitation`, `temp_max`, and `temp_min`.'



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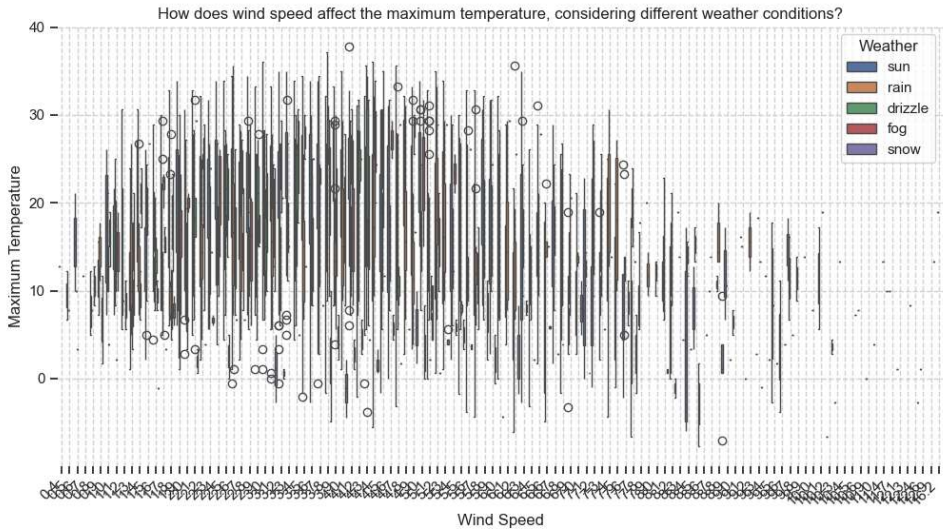
VizOps

✷ Insight 2:

```
main() Goal Goal(question='How does wind speed affect the maximum temperature,
considering different weather conditions?', visualization='Box plot showing the
distribution of `temp_max` for different levels of `wind`, grouped by `weather`.',
rationale='This visualization leverages `temp_max`, `wind`, and `weath...
```

A visualization goal

index int	2
question str	'How does wind speed affect the maximum temperature, considering different weather conditions?'
rationale str	'This visualization leverages `temp_max`, `wind`, and `weather` to understand the influence of wind speed on temperature under varying weather patterns. The box plots effectively compare the distributions of temperature across wind speed and weather categories.'
visualization str	'Box plot showing the distribution of `temp_max` for different levels of `wind`, grouped by `weather`.'



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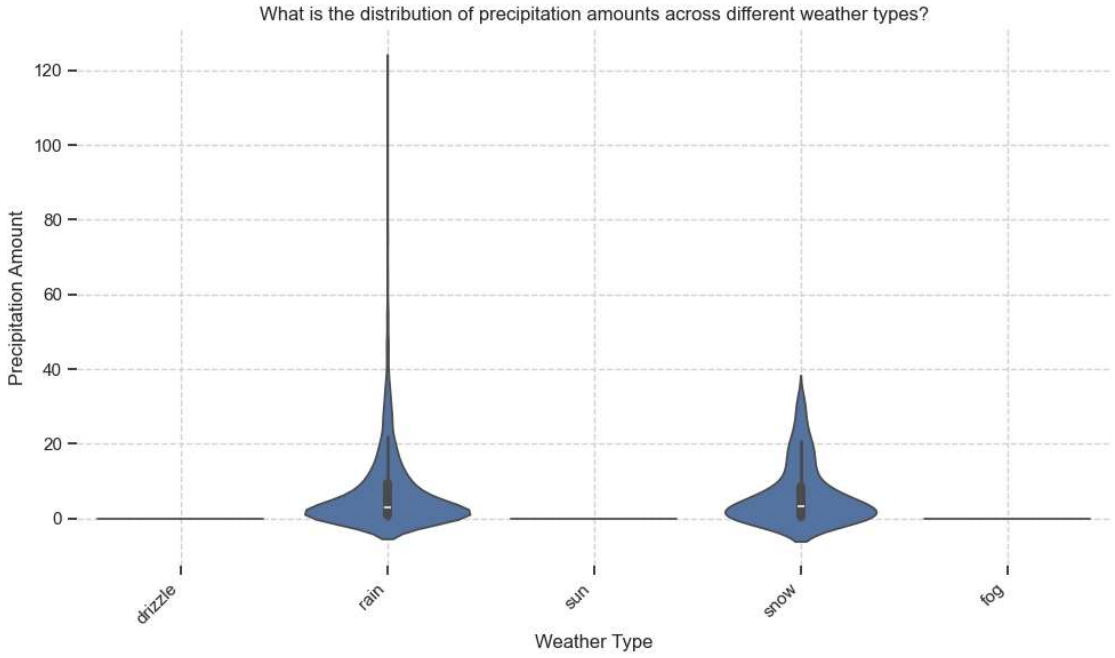
VizOps

✷ Insight 3:

`main()` Goal Goal(question='What is the distribution of precipitation amounts across different weather types?', visualization='Violin plot showing the distribution of `precipitation` for each unique value in the `weather` column.', rationale='This utilizes `precipitation` and `weather` to examine the relationshi...

A visualization goal

index int	3
question str	'What is the distribution of precipitation amounts across different weather types?'
rationale str	'This utilizes `precipitation` and `weather` to examine the relationship between the type of weather and the amount of precipitation. Violin plots are superior to box plots in showing the underlying probability density of precipitation within weather types.'
visualization str	'Violin plot showing the distribution of `precipitation` for each unique value in the `weather` column.'



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VizOps

✷ Insight 4:

main() Goal Goal(question='How have the average monthly minimum and maximum temperatures changed over the four years of the dataset in both locations?', visualization='Two separate line charts visualizing the monthly average `temp_min` and `temp_max` over the time period (extracted from the `date` field), with ...

A visualization goal

index int	4
question str	'How have the average monthly minimum and maximum temperatures changed over the four years of the dataset in both locations?'
rationale str	'Using `date`, `temp_min`, `temp_max` and `location`, this creates separate graphs to clearly show the trends over time for each temperature metric and location. This allows a detailed comparison of temperature changes over time and potential differences between location.'
visualization str	'Two separate line charts visualizing the monthly average `temp_min` and `temp_max` over the time period (extracted from the `date` field), with each line representing a different `location`.'