

# LIDA Tasks

 Filter Instruction  Requirements


NTViz works best with the datasets:

- Columns:  $\leq 10$
- Rows:  $\leq 10000$
- File Size:  $\leq 1\text{MB}$

**Correct CSV Format:**

Your file should contain only the variable names as column headers and the corresponding values.

Avoid including unrelated information such as titles, notes, or daily reports in the file.

 Example: 

Temperature



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.




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 Provider Instruction 

**Choose your provider and Enter API Key:**

Provider

Gemini 


Gemini API key:

..... 

Successfully connected to Gemini!

**Tasks:**

Functions:

Summarize & Goal 



	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 average daily temperature (max and min) vary over time in each location?', visualization='Line chart showing the rolling average of `temp_max` and `temp_min` over time, grouped by `location`. The x-axis would be `date`, and the y-axis would be temperature.', rationale='This ...
```

A visualization goal

index int 0

question str 'How does average daily temperature (max and min) vary over time in each location?'

rationale str 'This visualization uses `date`, `temp\_max`, `temp\_min`, and `location` to reveal seasonal trends and potential differences in temperature patterns between New York and Seattle. The rolling average smooths out daily fluctuations for a clearer view of long-term trends.'

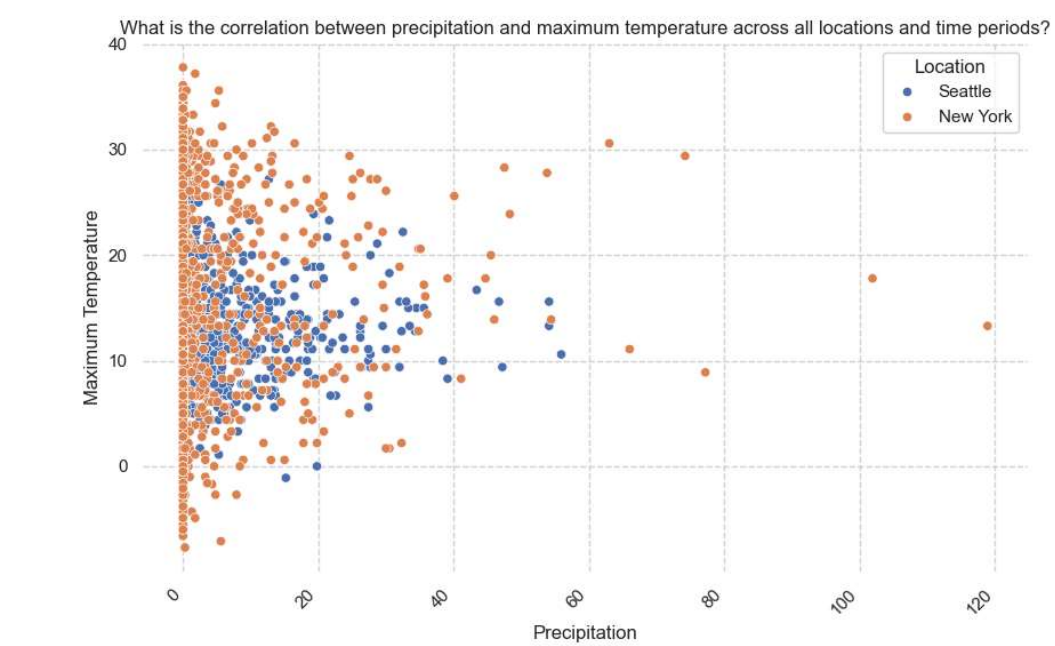
visualization str 'Line chart showing the rolling average of `temp\_max` and `temp\_min` over time, grouped by `location`. The x-axis would be `date`, and the y-axis would be temperature.'

✳️ Insight 1:



```
main() Goal Goal(question='What is the correlation between precipitation and maximum temperature across all locations and time periods?', visualization='Scatter plot with `precipitation` on the x-axis and `temp_max` on the y-axis, with color coding potentially added to represent `location` or `weather` for add...
```

A visualization goal

index	int	1
question	str	'What is the correlation between precipitation and maximum temperature across all locations and time periods?'
rationale	str	'This uses `precipitation` and `temp_max` to explore the relationship between these two variables. The additional color coding using `location` or `weather` will help to identify any location-specific or weather-type-specific relationships.'
visualization	str	'Scatter plot with `precipitation` on the x-axis and `temp_max` on the y-axis, with color coding potentially added to represent `location` or `weather` for additional insights.'



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## ✳ Insight 2:

```
main() Goal Goal(question='How does wind speed correlate with precipitation amount, considering different weather conditions?', visualization='Scatter plot of `wind` vs. `precipitation`, with points colored by `weather` category. A regression line could be added to show the trend.', rationale='This visualizati...
```

A visualization goal

index <code>int</code>	2
question <code>str</code>	'How does wind speed correlate with precipitation amount, considering different weather conditions?'
rationale <code>str</code>	'This visualization helps to investigate the relationship between `wind`, `precipitation`, and `weather`. The color coding by `weather` allows for a deeper understanding of how different weather types influence this relationship.'
visualization <code>str</code>	'Scatter plot of `wind` vs. `precipitation`, with points colored by `weather` category. A regression line could be added to show the trend.'

## ✳ Insight 3:

```
main() Goal Goal(question='What is the distribution of precipitation amounts for each weather type?', visualization='Box plot showing the distribution of `precipitation` for each unique value in the `weather` column.', rationale='This uses `precipitation` and `weather` to compare the central tendency and variab...
```

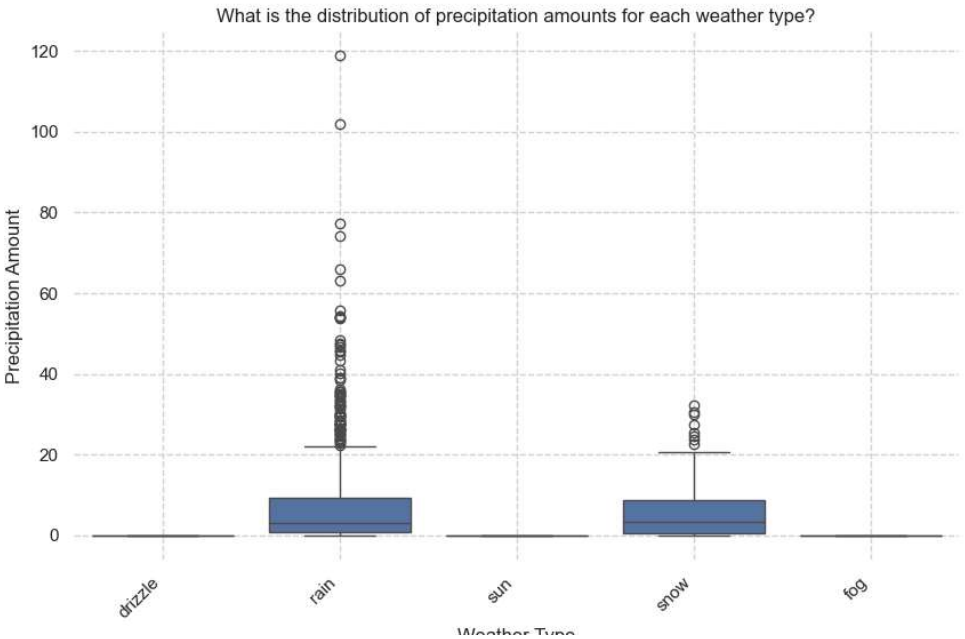
A visualization goal

index <code>int</code>	3
question <code>str</code>	'What is the distribution of precipitation amounts for each weather type?'
rationale <code>str</code>	'This uses `precipitation` and `weather` to compare the central tendency and variability of precipitation across different weather

types. A box plot effectively shows the median, quartiles, and outliers for each weather type.'

visualization `str`

'Box plot showing the distribution of `precipitation` for each unique value in the `weather` column.'



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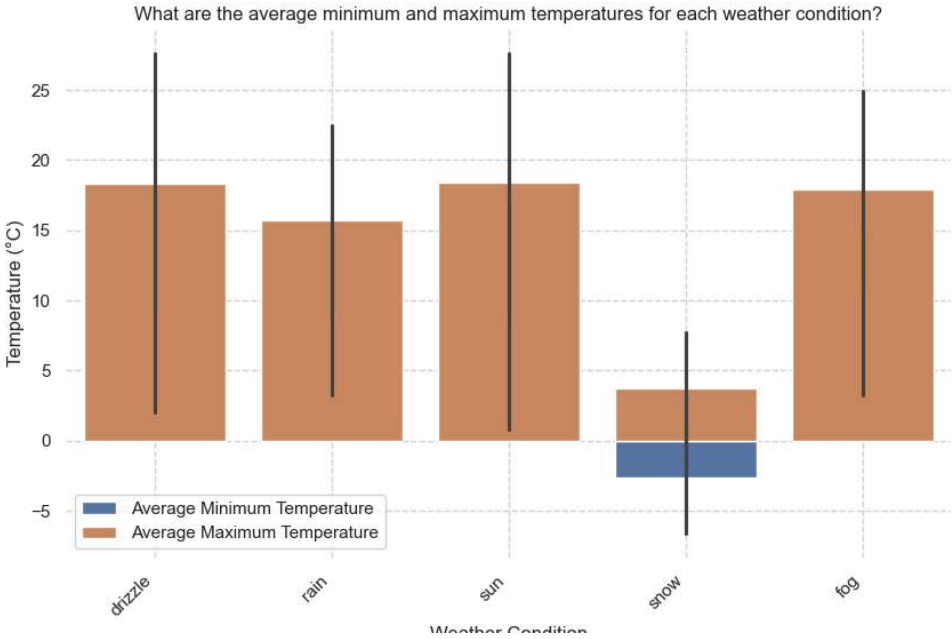
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✳ Insight 4:

`main()` `Goal` Goal(question='What are the average minimum and maximum temperatures for each weather condition?', visualization='Bar chart showing the average `temp\_min` and average `temp\_max` for each unique value in the `weather` column. Error bars could represent standard deviation for a more complete picture....

A visualization goal

index <span>int</span>	4
question <span>str</span>	'What are the average minimum and maximum temperatures for each weather condition?'
rationale <span>str</span>	'This visualization uses `temp_min`, `temp_max`, and `weather` to compare temperatures across different weather conditions. The use of average and standard deviation provides a comprehensive understanding of temperature distribution for each weather type.'
visualization <span>str</span>	'Bar chart showing the average `temp_min` and average `temp_max` for each unique value in the `weather` column. Error bars could represent standard deviation for a more complete picture.'



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