NTViz

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Dashboard

Instruction to get API KEY

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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 ⌄

LIDA Tasks

🧩 Filter Instruction   🔴 Requirements

Instruction: ⌄

Temperature

0.30

0.00   1.00

Select Model:

gemini-1.5-flash ⌄

Upload a data file in .csv format:

☁️ **Drag and drop file here**   Browse files
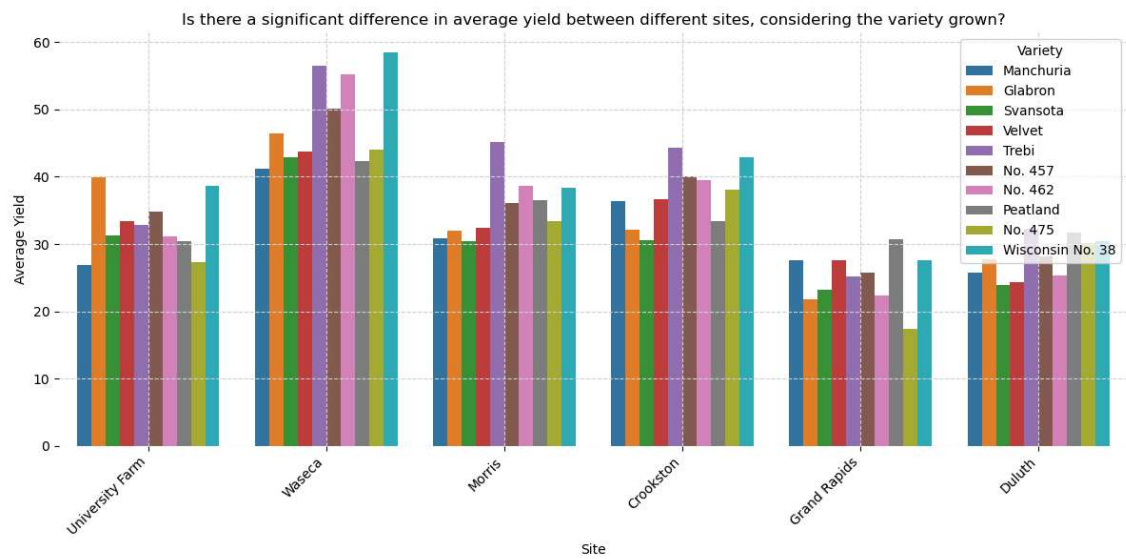   Limit 200MB per file • CSV

📄 barley.csv 3.8KB   ✕

Successfully uploaded a CSV file with 120 rows of data.

	yield	variety	year	site
0	27	Manchuria	1,931	University Farm
1	48.8667	Manchuria	1,931	Waseca
2	27.4333	Manchuria	1,931	Morris
3	39.9333	Manchuria	1,931	Crookston
4	32.9667	Manchuria	1,931	Grand Rapids

No missing or duplicate values found in the data.

Generate Charts

✴ Insight 0:

```
main() Goal Goal(question='What is the distribution of crop yield across different
varieties, and how does this distribution change over the years?', visualization="Box
plot of 'yield' grouped by 'variety' and faceted by 'year'", rationale="This
visualization uses 'yield', 'variety', and 'year' to compare the c...
```

A visualization goal	
index int	0
question str	'What is the distribution of crop yield across different varieties, and how does this distribution change over the years?'
rationale str	"This visualization uses 'yield', 'variety', and 'year' to compare the central tendency, spread, and potential outliers of yield for each variety in both years. It allows for a direct comparison of yield performance across varieties and reveals any year-to-year variations in yield distribution for ...
visualization str	"Box plot of 'yield' grouped by 'variety' and faceted by 'year'"

What is the distribution of crop yield across different varieties, and how does this distribution change over the years?

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⚙ VizOps ⌄

✴ Insight 1:

```
main() Goal Goal(question='Is there a significant difference in average yield between
different sites, considering the variety grown?', visualization="Bar chart showing
average 'yield' for each 'site' further broken down by 'variety'", rationale="This uses
'yield', 'site', and 'variety' to compare average yield...
```

A visualization goal	
index `int`	1
question `str`	'Is there a significant difference in average yield between different sites, considering the variety grown?'
rationale `str`	"This uses 'yield', 'site', and 'variety' to compare average yield across different sites, accounting for the influence of variety. Error bars representing standard deviation or confidence intervals should be included to assess statistical significance. This helps identify sites that consistently p...
visualization `str`	"Bar chart showing average 'yield' for each 'site' further broken down by 'variety'"

Is there a significant difference in average yield between different sites, considering the variety grown?

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⚙ VizOps ⌄

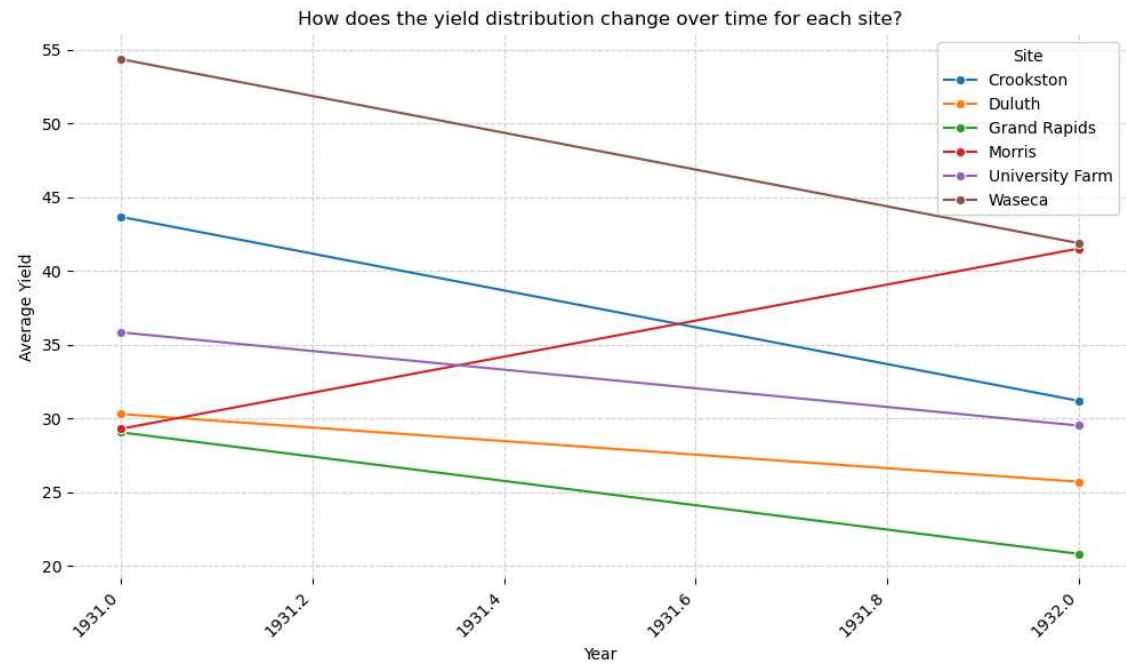## ✳ Insight 2:

```
main() Goal Goal(question='How does the yield distribution change over time for each
site?', visualization="Line chart showing the average 'yield' over 'year' for each
'site'", rationale="This visualization uses 'yield', 'year', and 'site' to track yield
trends over time at each site. It reveals whether yields...
```

A visualization goal	
index int	2
question str	'How does the yield distribution change over time for each site?'
rationale str	"This visualization uses 'yield', 'year', and 'site' to track yield trends over time at each site. It reveals whether yields are increasing, decreasing, or remaining stable at each location. This is crucial for identifying long-term trends and potential factors influencing yield changes over time."
visualization str	"Line chart showing the average 'yield' over 'year' for each 'site'"

How does the yield distribution change over time for each site?

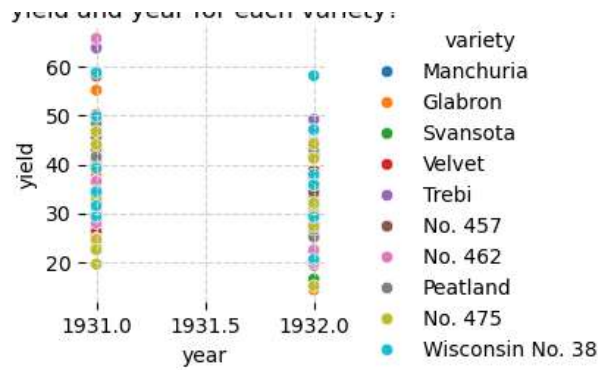
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⚙ VizOps ⌄

✳ Insight 3:

```
main() Goal Goal(question='What is the correlation between yield and year for each
variety?', visualization="Scatter plot matrix showing the relationship between 'yield'
and 'year' for each 'variety'", rationale="This uses 'yield', 'year', and 'variety' to
explore the correlation between yield and year for each...
```

A visualization goal

index `int`		3
question `str`		'What is the correlation between yield and year for each variety?'
rationale `str`		"This uses 'yield', 'year', and 'variety' to explore the correlation between yield and year for each variety. The scatter plot matrix allows for a visual inspection of the relationship, revealing potential trends

(positive, negative, or no correlation) for each variety. This helps
determine if yie...

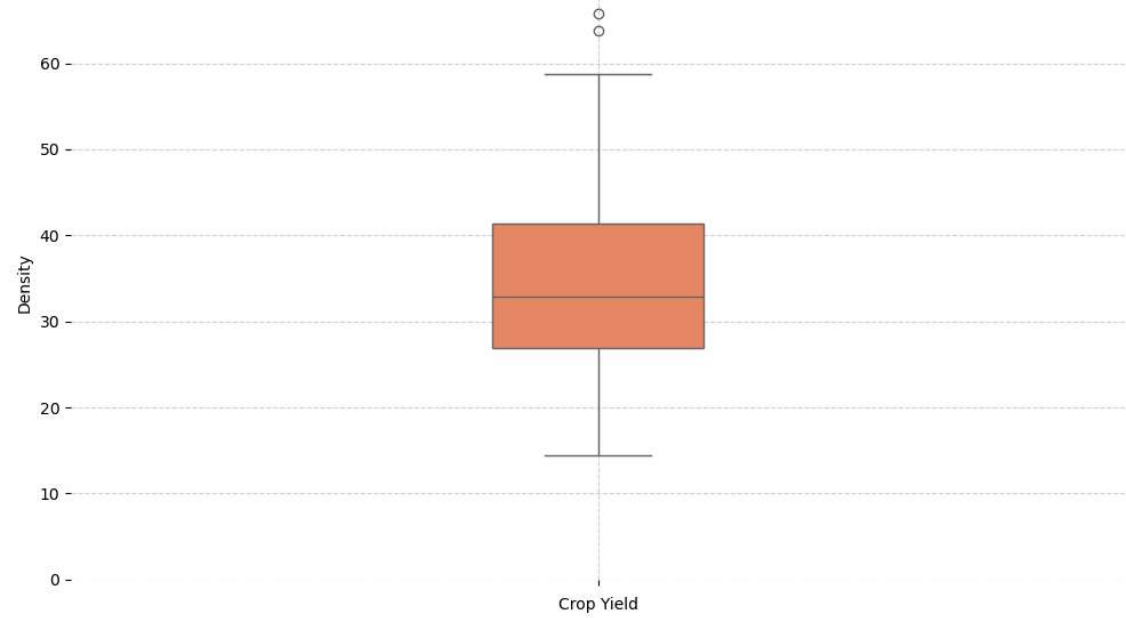|	
visualization str	"Scatter plot matrix showing the relationship between 'yield' and 'year' for each 'variety'"

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⚙ VizOps ⌄

✳ Insight 4:

```
main() Goal Goal(question='What is the overall distribution of crop yield, and are there
any significant outliers?', visualization="Histogram of 'yield' with overlaid density
plot and box plot", rationale="This visualization uses only 'yield' to show the overall
distribution of the data, highlighting the centra...
```

A visualization goal	
index int	4
question str	'What is the overall distribution of crop yield, and are there any significant outliers?'
rationale str	"This visualization uses only 'yield' to show the overall distribution of the data, highlighting the central tendency, spread, and presence of outliers. The combination of a histogram, density plot, and box plot provides a comprehensive view of the yield distribution, allowing for the identification...
visualization str	"Histogram of 'yield' with overlaid density plot and box plot"

What is the overall distribution of crop yield, and are there any significant outliers?

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