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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

　　　　　　　　　　　　　　　　0.70
　　　　　　　　　　　　　　　　　●

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

📄　WineQT.csv　76.2KB　　　　　　　　　　　✕

Successfully uploaded a CSV file with 1143 rows of data.

	fixed acidity	volatile acidity	citric acid	residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide	density
0	7.4	0.7	0	1.9	0.076	11	34	0.9978
1	7.8	0.88	0	2.6	0.098	25	67	0.9968
2	7.8	0.76	0.04	2.3	0.092	15	54	0.997
3	11.2	0.28	0.56	1.9	0.075	17	60	0.998
4	7.4	0.7	0	1.9	0.076	11	34	0.9978

No missing or duplicate values found in the data.
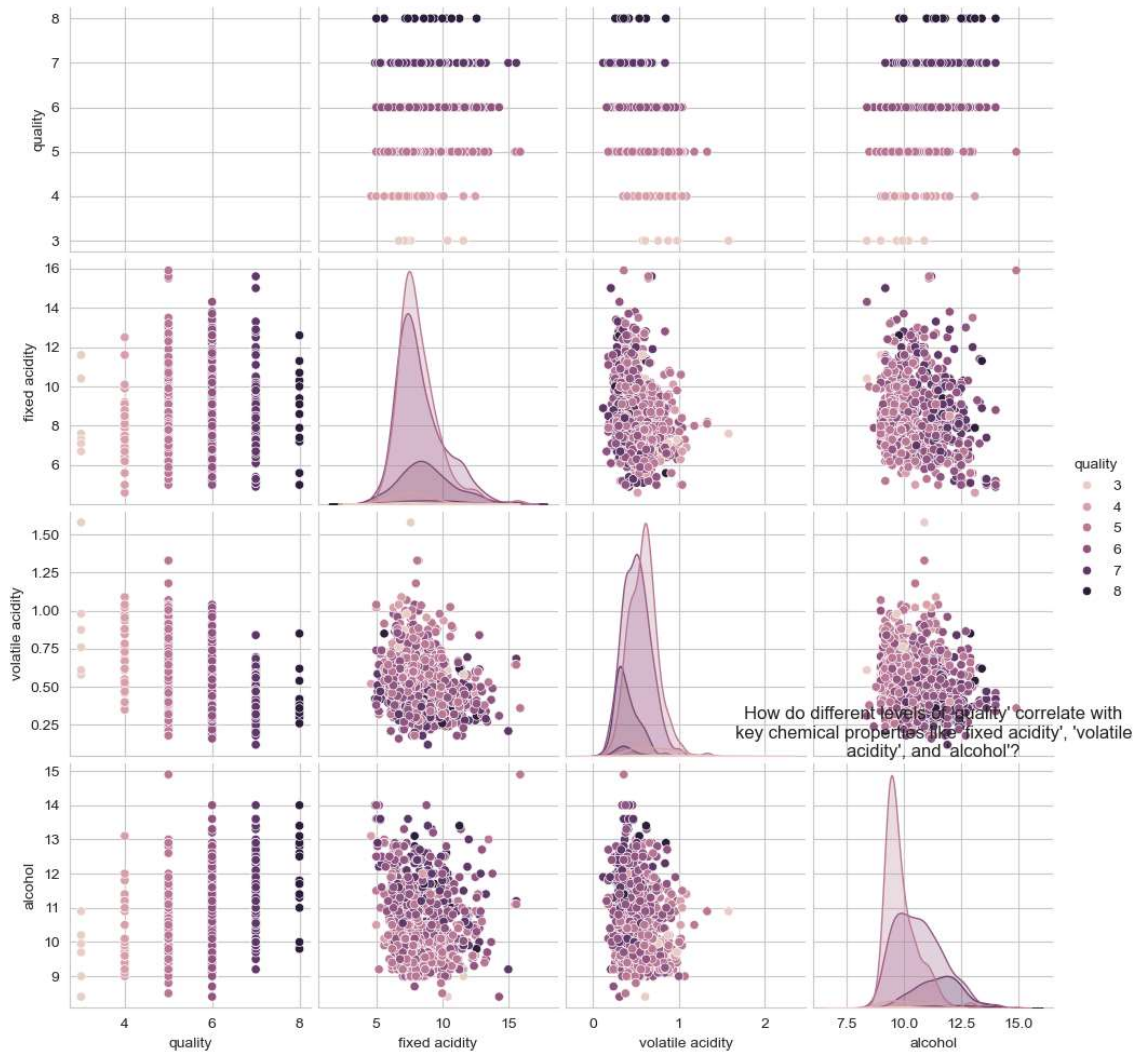
Generate Charts

✳ Insight 0:

```
main() Goal Goal(question="How do different levels of 'quality' correlate with key
chemical properties like 'fixed acidity', 'volatile acidity', and 'alcohol'?",
visualization="Scatter plot matrix showing the relationships between 'quality', 'fixed
acidity', 'volatile acidity', and 'alcohol'.", rationale='This ...
```

A visualization goal	
index int	0
question str	"How do different levels of 'quality' correlate with key chemical properties like 'fixed acidity', 'volatile acidity', and 'alcohol'?"
rationale str	'This visualization allows for the exploration of multi-variate relationships. By examining the scatter plots, we can identify potential correlations between wine quality and its chemical composition. This can reveal which chemical properties are most strongly associated with higher or lower quali...
visualization str	"Scatter plot matrix showing the relationships between 'quality', 'fixed acidity', 'volatile acidity', and 'alcohol'."

How do different levels of 'quality' correlate with key chemical properties like 'fixed acidity', 'volatile acidity', and 'alcohol'?
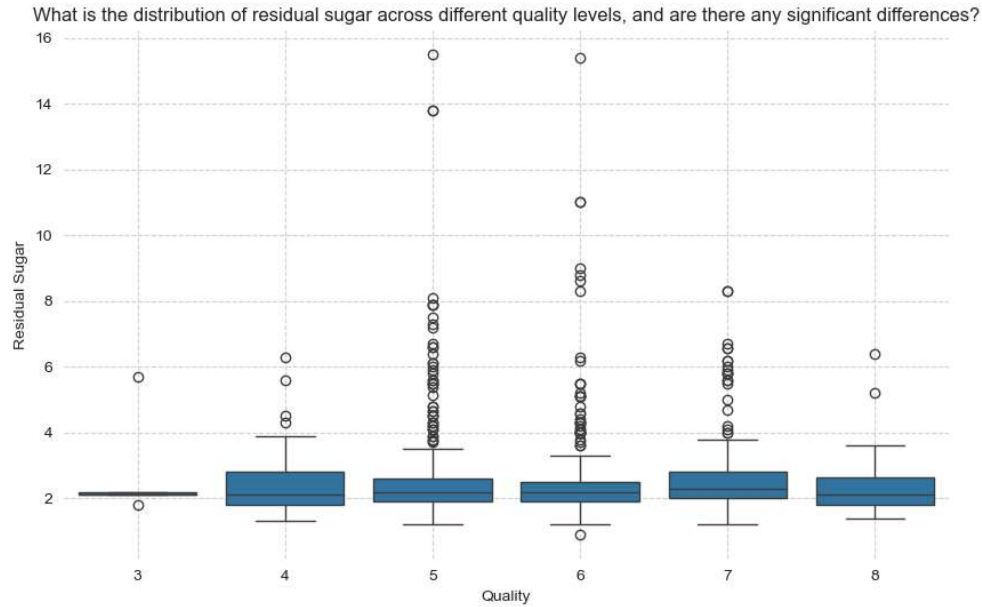
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⚙ VizOps ⌄

✳ **Insight 1:**

```
main() Goal Goal(question="What is the distribution of 'residual sugar' across different
'quality' levels, and are there any significant differences?", visualization="Box plot
of 'residual sugar' grouped by 'quality'.", rationale="Box plots effectively compare the
distribution of 'residual sugar' across differe...
```

A visualization goal

index `int`	1
question `str`	"What is the distribution of 'residual sugar' across different 'quality' levels, and are there any significant differences?"
rationale `str`	"Box plots effectively compare the distribution of 'residual sugar' across different quality levels. We can identify potential outliers and assess whether wines of different qualities tend to have significantly different levels of residual sugar."
visualization `str`	"Box plot of 'residual sugar' grouped by 'quality'."

What is the distribution of residual sugar across different quality levels, and are there any significant differences?

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⚙ VizOps ⌄

✷ Insight 2:

```
main() Goal Goal(question="Is there a non-linear relationship between 'alcohol' content
and 'quality'? How does this relationship change when considering other variables such
as 'volatile acidity'?", visualization="3D scatter plot with 'alcohol' on one axis,
'quality' on another, and 'volatile acidity' on the ...
```

A visualization goal

index int	2
question str	"Is there a non-linear relationship between 'alcohol' content and 'quality'? How does this relationship change when considering other variables such as 'volatile acidity'?"
rationale str	'A 3D scatter plot helps visualize complex, multi-dimensional relationships. This allows us to explore potential non-linear correlations between alcohol content, quality, and volatile acidity, allowing for a more nuanced understanding of the impact of these variables on wine quality. The color grad...
visualization str	"3D scatter plot with 'alcohol' on one axis, 'quality' on another, and 'volatile acidity' on the third. Consider adding a color gradient to represent 'density'."

✷ Insight 3:

```
main() Goal Goal(question="What is the combined effect of 'fixed acidity' and 'pH' on
wine 'quality'?", visualization="Heatmap showing the distribution of 'quality' across
different combinations of 'fixed acidity' and 'pH'.", rationale="A heatmap is ideal for
visualizing the density of data points across two co...
```
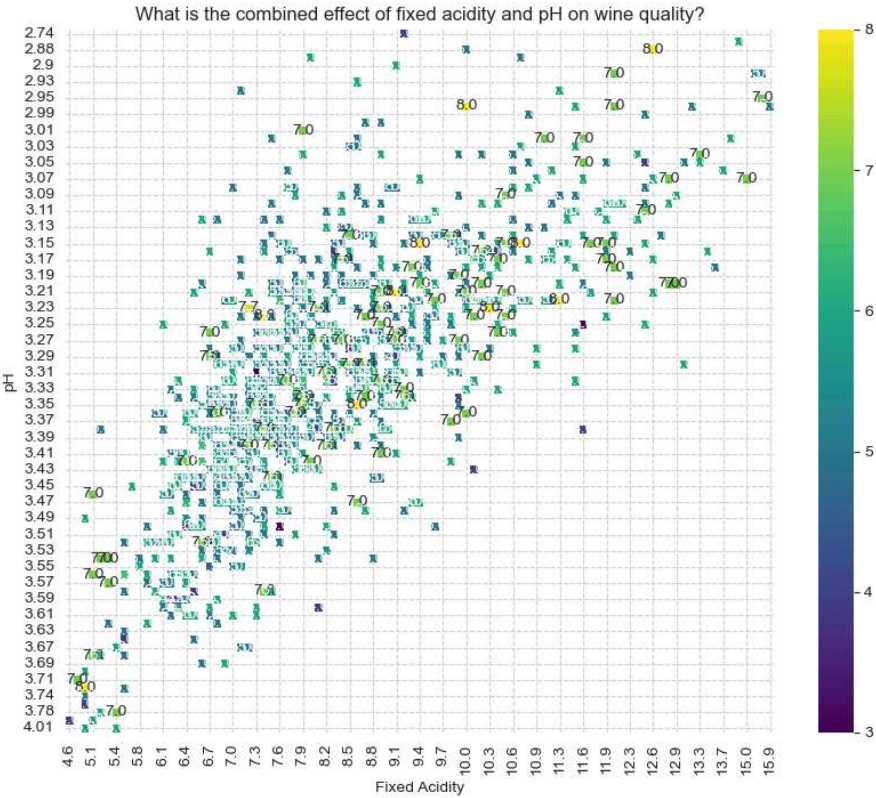
A visualization goal

index int	3
question str	"What is the combined effect of 'fixed acidity' and 'pH' on wine 'quality'?"
rationale str	"A heatmap is ideal for visualizing the density of data points across two continuous variables. This allows us to observe how different

	combinations of 'fixed acidity' and 'pH' relate to 'quality', identifying potential optimal ranges for these properties."
visualization `str`	"Heatmap showing the distribution of 'quality' across different combinations of 'fixed acidity' and 'pH'."

What is the combined effect of fixed acidity and pH on wine quality?
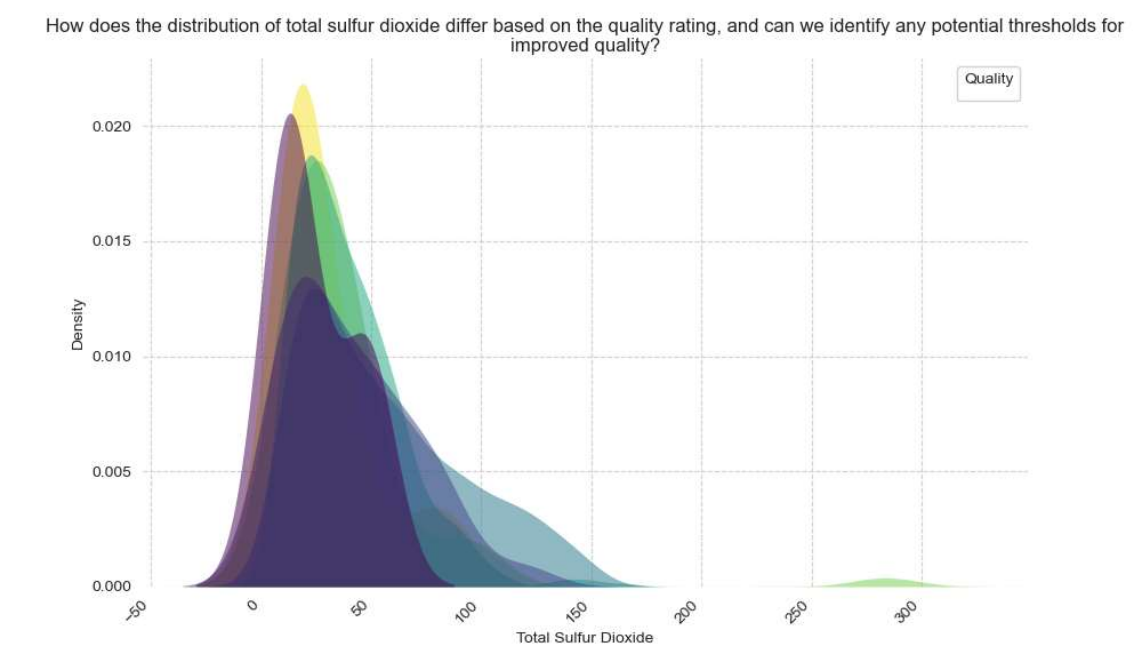
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✴ **Insight 4:**

```
main() Goal Goal(question="How does the distribution of 'total sulfur dioxide' differ
based on the 'quality' rating, and can we identify any potential thresholds for improved
quality?", visualization="Density plot of 'total sulfur dioxide', with separate curves
for each 'quality' level.", rationale="Density plo...
```

A visualization goal

index int	4
question str	"How does the distribution of 'total sulfur dioxide' differ based on the 'quality' rating, and can we identify any potential thresholds for improved quality?"
rationale str	"Density plots smoothly show the distribution of a continuous variable. By comparing the density plots for each 'quality' level, we can identify overlapping and distinct regions, potentially suggesting thresholds for 'total sulfur dioxide' that correlate with higher or lower wine quality."
visualization str	"Density plot of 'total sulfur dioxide', with separate curves for each 'quality' level."

How does the distribution of total sulfur dioxide differ based on the quality rating, and can we identify any potential thresholds for improved quality?

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