NTViz

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☑️ Provider Instruction ⌄

Choose your provider and Enter API Key:

Provider

Gemini ⌄

Gemini API key:

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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

📄 Apple 2009-2024.csv 2.5KB   ✕
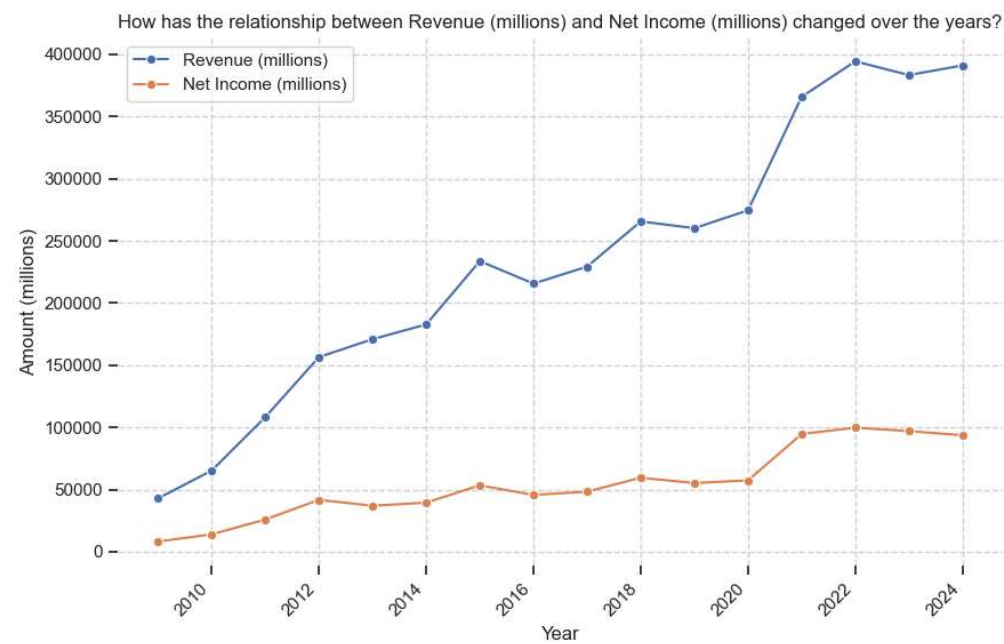
Successfully uploaded a CSV file with 16 rows of data.

	year	EBITDA (millions)	Revenue (millions)	Gross Profit (millions)	Op Income (millions)	Net Income (millions)	
0	2,024	$134,661	$391,035	$180,683	$123,216	$93,736	
1	2,023	$125,820	$383,285	$169,148	$114,301	$96,995	
2	2,022	$130,541	$394,328	$170,782	$119,437	$99,803	
3	2,021	$120,233	$365,817	$152,836	$108,949	$94,680	
4	2,020	$77,344	$274,515	$104,956	$66,288	$57,411	

No missing or duplicate values found in the data.

Generate Charts

✳ Insight 0:

```
main() Goal Goal(question='How has the relationship between Revenue (millions) and Net
Income (millions) changed over the years?', visualization='Line chart showing Revenue
(millions) and Net Income (millions) over time (year)', rationale="This visualization
uses 'year', 'Revenue (millions)', and 'Net Income (m...
```

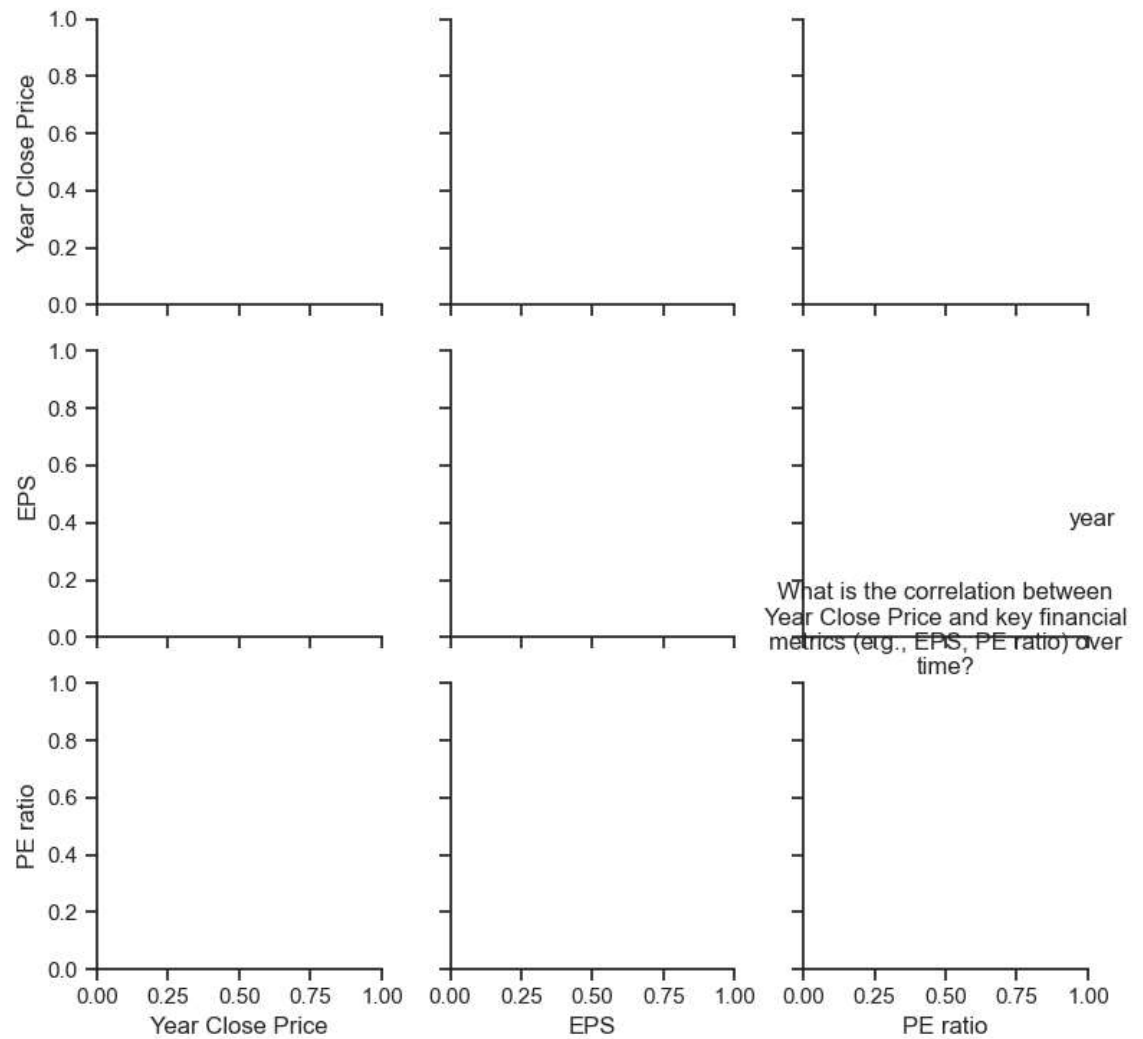| A visualization goal	
index int	0
question str	'How has the relationship between Revenue (millions) and Net Income (millions) changed over the years?'
rationale str	"This visualization uses 'year', 'Revenue (millions)', and 'Net Income (millions)' to analyze the trend of profitability relative to revenue growth. A strong correlation would indicate efficient revenue conversion to profit, while a weak or diverging trend might suggest areas for operational improv...
visualization str	'Line chart showing Revenue (millions) and Net Income (millions) over time (year)'

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⚙ VizOps ⌄

✳ Insight 1:

```
main() Goal Goal(question='What is the correlation between Year Close Price and key
financial metrics (e.g., EPS, PE ratio) over time?', visualization="Scatter plot matrix
showing the correlation between 'Year Close Price', 'EPS', and 'PE ratio' across
'year'.", rationale="This uses 'year', 'Year Close Price', ...
```

A visualization goal	
index int	1
question str	'What is the correlation between Year Close Price and key financial metrics (e.g., EPS, PE ratio) over time?'
rationale str	"This uses 'year', 'Year Close Price', 'EPS', and 'PE ratio' to explore the stock's valuation and performance. Strong correlations would indicate market sensitivity to these financial indicators, providing insights into investor sentiment and market dynamics."
visualization str	"Scatter plot matrix showing the correlation between 'Year Close Price', 'EPS', and 'PE ratio' across 'year'."

year

What is the correlation between Year Close Price and key financial metrics (e.g., EPS, PE ratio) over time?
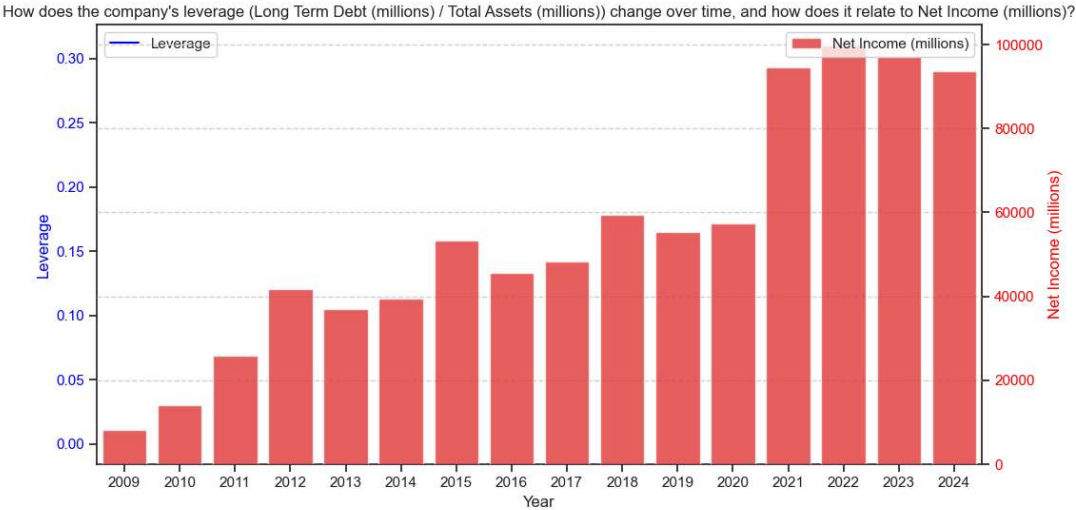
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⚙ VizOps ⌄

✴ Insight 2:

```
main() Goal Goal(question="How does the company's leverage (Long Term Debt (millions) /
Total Assets (millions)) change over time, and how does it relate to Net Income
(millions)?", visualization="Combined line and bar chart showing 'Long Term Debt
(millions)' / 'Total Assets (millions)' as a line and 'Net Inco...
```

A visualization goal

index int	2
question str	"How does the company's leverage (Long Term Debt (millions) / Total Assets (millions)) change over time, and how does it relate to Net Income (millions)?"
rationale str	"This combines 'year', 'Long Term Debt (millions)', 'Total Assets (millions)', and 'Net Income (millions)' to assess the company's financial risk and its impact on profitability. High leverage coupled with low net income indicates potential financial distress."
visualization str	"Combined line and bar chart showing 'Long Term Debt (millions)' / 'Total Assets (millions)' as a line and 'Net Income (millions)' as bars over 'year'."

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✳ Insight 3:

main() Goal Goal(question='What is the distribution of Gross Margin across different
years, and how does it compare to the average Gross Margin?', visualization="Box plot of
'Gross Margin' grouped by 'year', with a horizontal line indicating the overall average
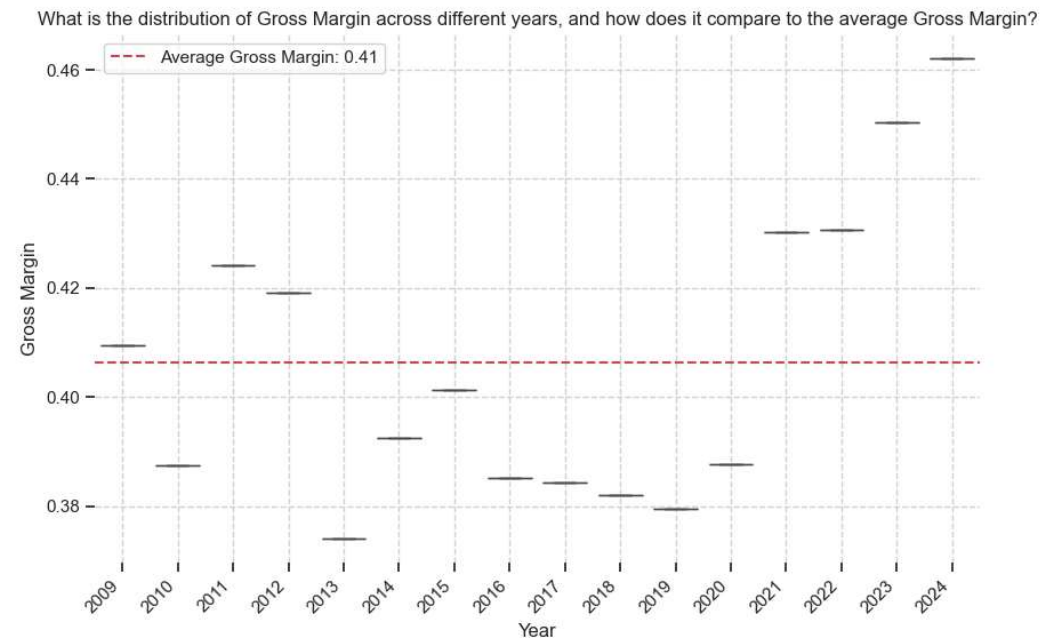'Gross Margin'.", rationale="This visualization us...

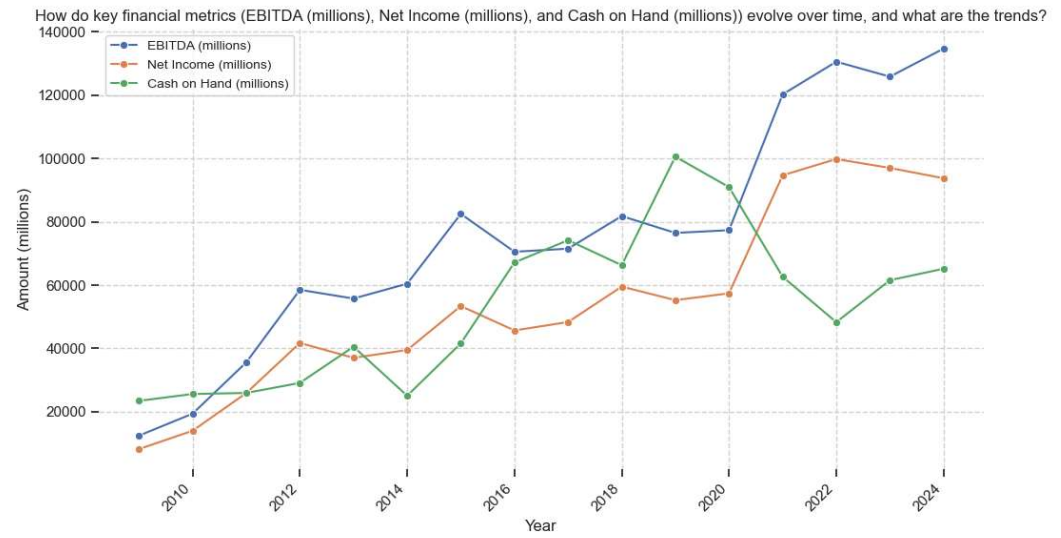| A visualization goal	
index int	3
question str	'What is the distribution of Gross Margin across different years, and how does it compare to the average Gross Margin?'
rationale str	"This visualization uses 'year' and 'Gross Margin' to show the variability and central tendency of gross margin over time. It helps identify years with significantly higher or lower margins, potentially indicating changes in pricing strategies, cost structures, or market conditions."
visualization str	"Box plot of 'Gross Margin' grouped by 'year', with a horizontal line indicating the overall average 'Gross Margin'."

What is the distribution of Gross Margin across different years, and how does it compare to the average Gross Margin?

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✴ **Insight 4:**

```
main() Goal Goal(question='How do key financial metrics (EBITDA (millions), Net Income
(millions), and Cash on Hand (millions)) evolve over time, and what are the trends?',
visualization="Area chart showing the trends of 'EBITDA (millions)', 'Net Income
(millions)', and 'Cash on Hand (millions)' over 'year'.", ...
```

A visualization goal	
index int	4
question str	'How do key financial metrics (EBITDA (millions), Net Income (millions), and Cash on Hand (millions)) evolve over time, and what are the trends?'
rationale str	"This uses 'year', 'EBITDA (millions)', 'Net Income (millions)', and 'Cash on Hand (millions)' to provide a comprehensive overview of the company's financial health and performance. The area chart allows for easy comparison of the growth or decline of these key metrics over time."
visualization str	"Area chart showing the trends of 'EBITDA (millions)', 'Net Income (millions)', and 'Cash on Hand (millions)' over 'year'."

How do key financial metrics (EBITDA (millions), Net Income (millions), and Cash on Hand (millions)) evolve over time, and what are the trends?

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