NT NTViz

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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   Browse files
  Limit 200MB per file • CSV

📄 jobs.csv 337.1KB   ✕
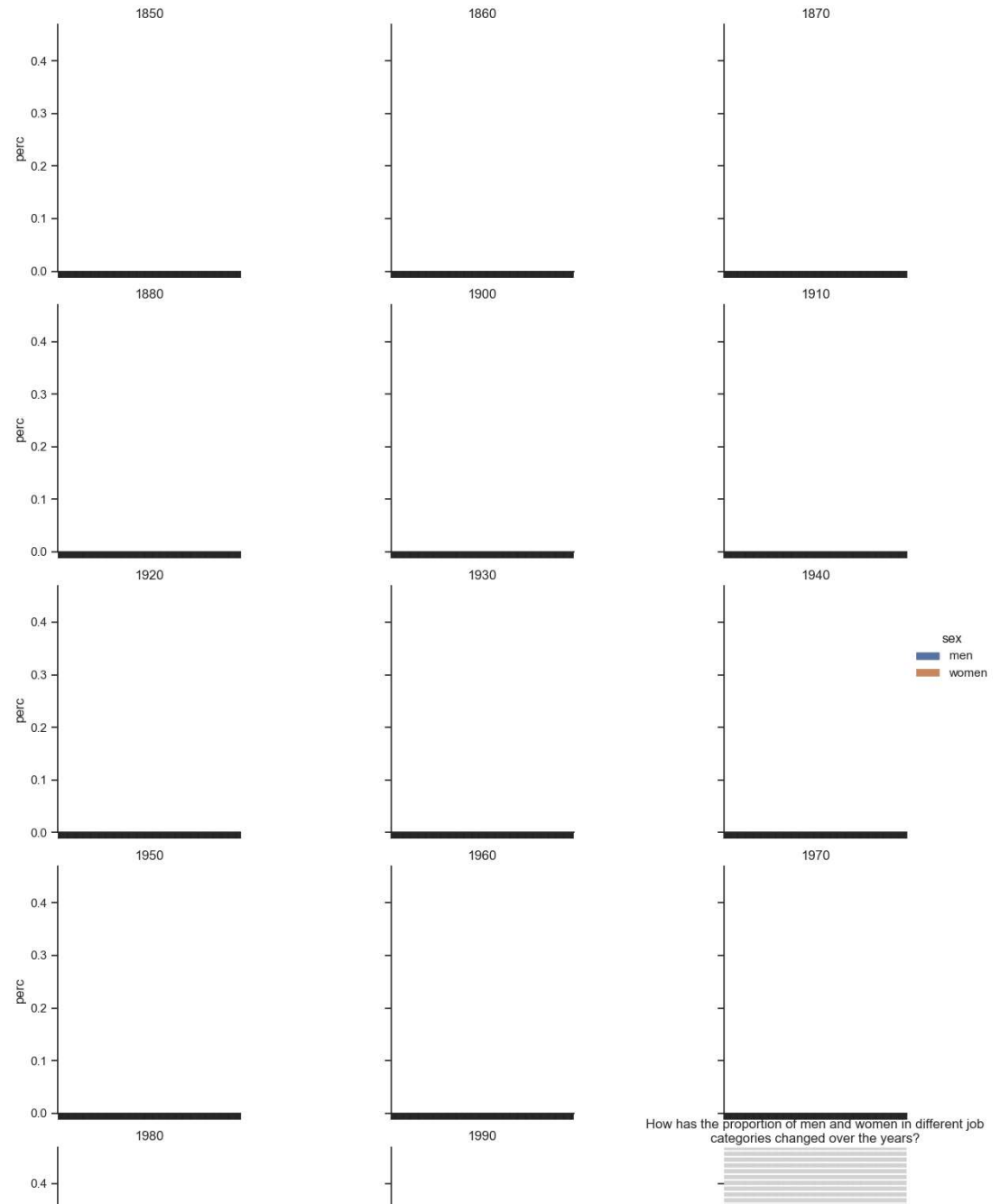
Successfully uploaded a CSV file with 7650 rows of data.

	job	sex	year	count	perc
0	Accountant / Auditor	men	1,850	708	0.0001
1	Accountant / Auditor	men	1,860	1,805	0.0002
2	Accountant / Auditor	men	1,870	1,310	0.0001
3	Accountant / Auditor	men	1,880	2,295	0.0001
4	Accountant / Auditor	men	1,900	11,753	0.0004

No missing or duplicate values found in the data.

Generate Charts

✴ Insight 0:

```
main() Goal Goal(question='How has the proportion of men and women in different job
categories changed over the years?', visualization="Grouped bar chart showing 'perc' for
each 'job' category, separated by 'sex' and faceted by 'year'.", rationale="This
visualization uses 'job', 'sex', 'year', and 'perc' to ana...
```

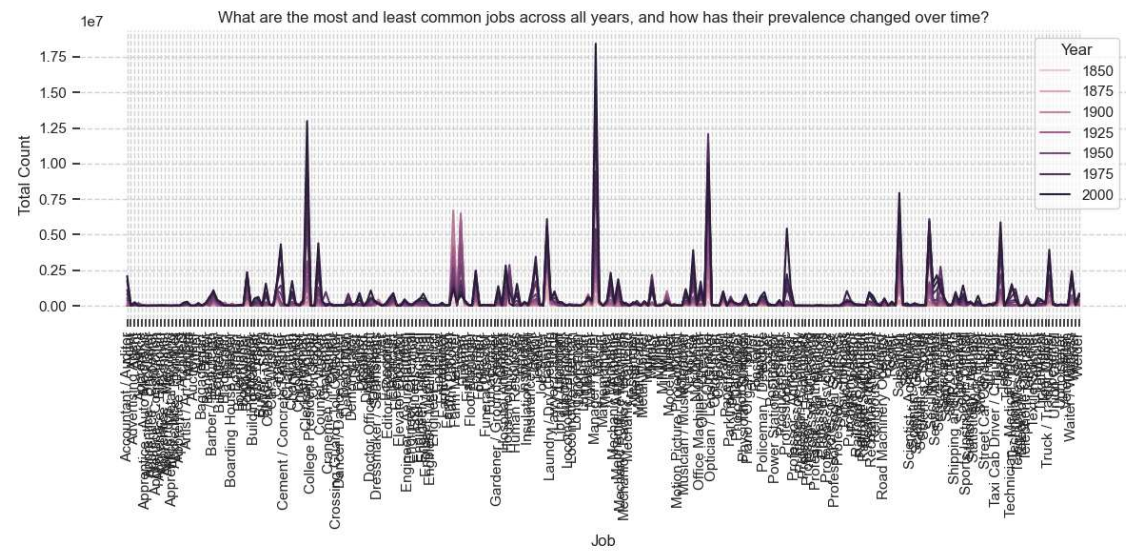| A visualization goal	
index int	0
question str	'How has the proportion of men and women in different job categories changed over the years?'
rationale str	"This visualization uses 'job', 'sex', 'year', and 'perc' to analyze gender representation across various professions over time. The grouped bar chart allows for easy comparison of proportions between men and women within each job category for each year, revealing trends in gender equality or dispa...
visualization str	"Grouped bar chart showing 'perc' for each 'job' category, separated by 'sex' and faceted by 'year'."

1850

perc

0.4
0.3
0.2
0.1
0.0

1860

0.4
0.3
0.2
0.1
0.0

1870

0.4
0.3
0.2
0.1
0.0

1880

perc

0.4
0.3
0.2
0.1
0.0

1900

0.4
0.3
0.2
0.1
0.0

1910

0.4
0.3
0.2
0.1
0.0

1920

perc

0.4
0.3
0.2
0.1
0.0

1930

0.4
0.3
0.2
0.1
0.0

1940

sex
men
women

1950

perc

0.4
0.3
0.2
0.1
0.0

1960

0.4
0.3
0.2
0.1
0.0

1970

How has the proportion of men and women in different job categories changed over the years?

1980

0.4

1990

NTViz

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⚙ VizOps ⌄

✳ Insight 1:

main() Goal Goal(question='What are the most and least common jobs across all years, and how has their prevalence changed over time?', visualization="Line chart showing the sum of 'count' for each 'job' over 'year'.", rationale="This visualization uses 'job', 'year', and 'count'. The line chart will show the t...

A visualization goal	
index int	1
question str	'What are the most and least common jobs across all years, and how has their prevalence changed over time?'
rationale str	"This visualization uses 'job', 'year', and 'count'. The line chart will show the trend of each job's count over time. We can identify jobs with consistently high or low counts and those experiencing significant growth or decline, revealing long-term trends in occupational distribution."
visualization str	"Line chart showing the sum of 'count' for each 'job' over 'year'."

What are the most and least common jobs across all years, and how has their prevalence changed over time?

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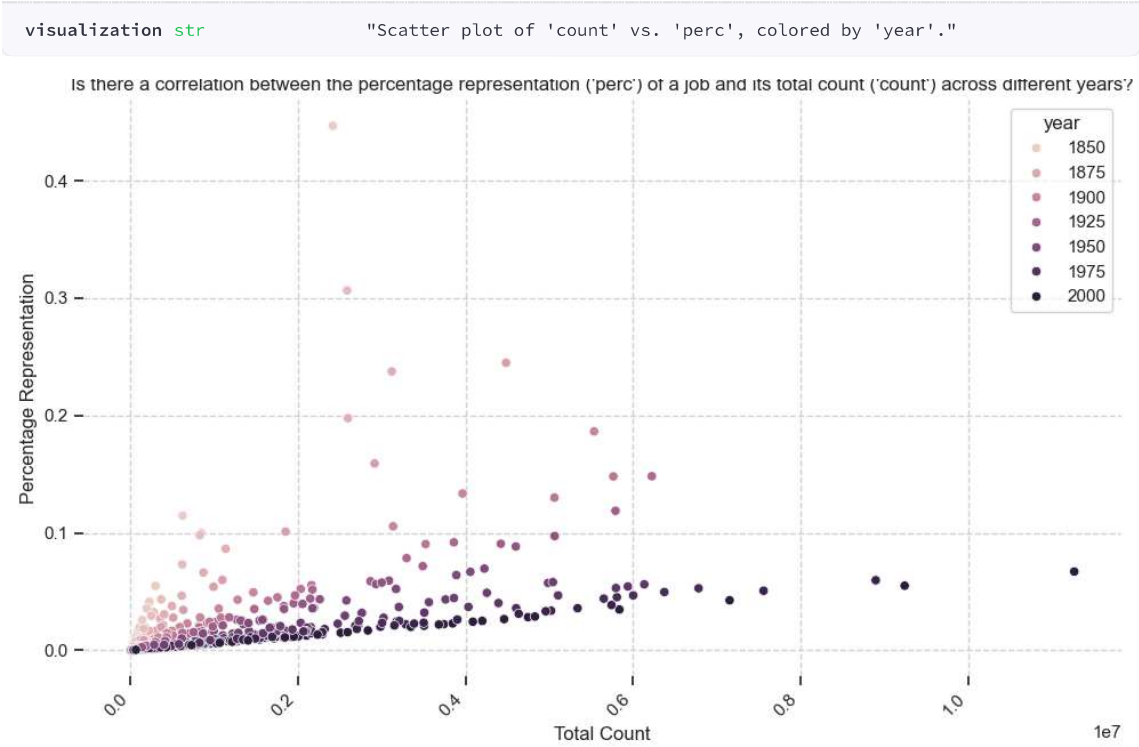## ✷ Insight 2:

```
main() Goal Goal(question="Is there a correlation between the percentage representation
('perc') of a job and its total count ('count') across different years?",
visualization="Scatter plot of 'count' vs. 'perc', colored by 'year'.", rationale="This
visualization utilizes 'count', 'perc', and 'year'. A scatter ...
```

A visualization goal

index int	2
question str	"Is there a correlation between the percentage representation ('perc') of a job and its total count ('count') across different years?"
rationale str	"This visualization utilizes 'count', 'perc', and 'year'. A scatter plot will reveal any potential relationship between the total count of a job and its percentage representation. Color-coding by year will help identify if this correlation changes over time. This can indicate if highly represented...

visualization str	"Scatter plot of 'count' vs. 'perc', colored by 'year'."

Is there a correlation between the percentage representation ('perc') of a job and its total count ('count') across different years?

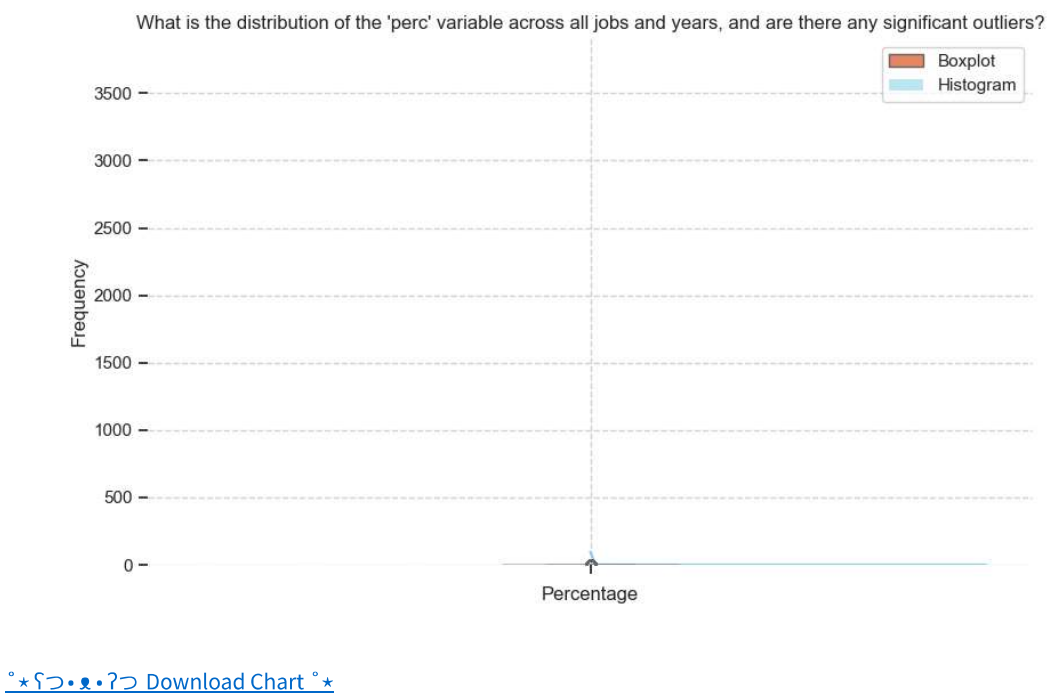˚★�₍ッ•ᴥ•?ッ Download Chart ˚★

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✳ Insight 3:

main() Goal	Goal(question="What is the distribution of the 'perc' variable across all jobs and years, and are there any significant outliers?", visualization="Histogram of 'perc' with a box plot overlay.", rationale="This visualization focuses on the 'perc' variable. The histogram shows the overall distributio..."

A visualization goal

index int	3
question str	"What is the distribution of the 'perc' variable across all jobs and years, and are there any significant outliers?"

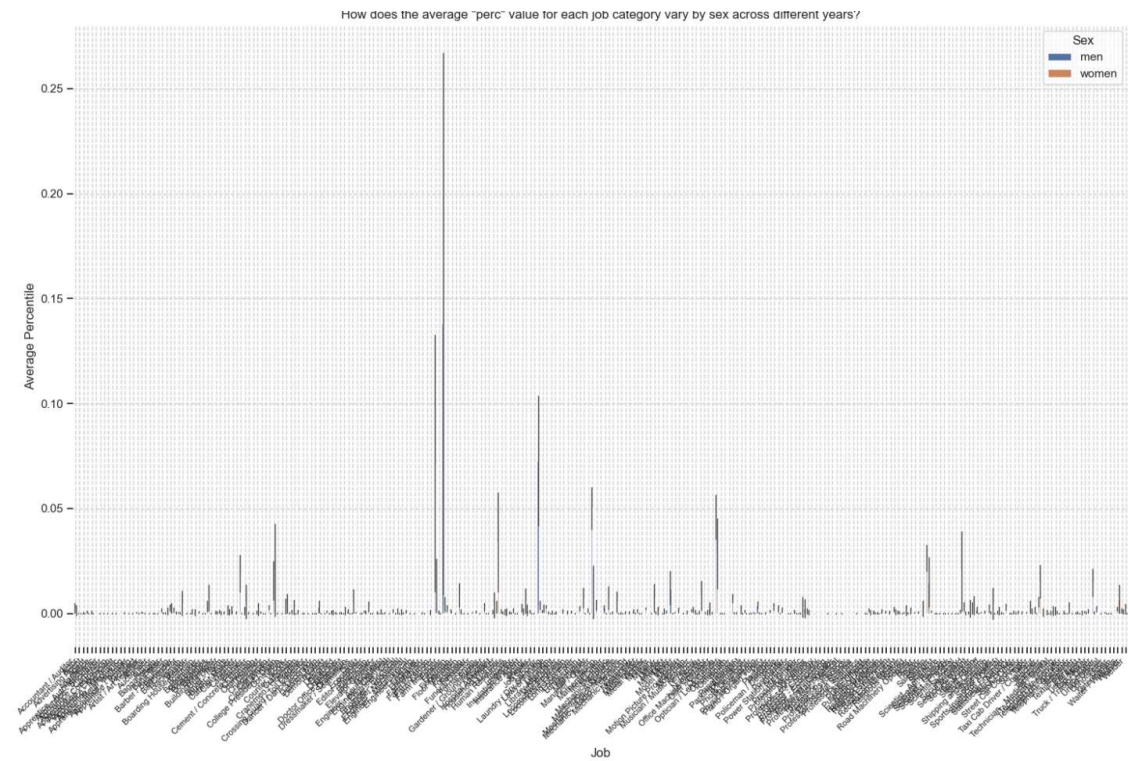|	
rationale str	"This visualization focuses on the 'perc' variable. The histogram shows the overall distribution, revealing skewness or multimodality. The box plot overlay highlights the median, quartiles, and potential outliers, providing a clearer picture of central tendency and data spread. This helps in ident...
visualization str	"Histogram of 'perc' with a box plot overlay."

What is the distribution of the 'perc' variable across all jobs and years, and are there any significant outliers?

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✳ Insight 4:

main() Goal Goal(question="How does the average 'perc' value for each job category vary by sex across different years?", visualization="Bar chart showing the average 'perc' for each 'job' category, separated by 'sex' and faceted by 'year'. Error bars showing standard deviations should be included.", rationale="...

A visualization goal

index int	4
question str	"How does the average 'perc' value for each job category vary by sex across different years?"
rationale str	"This visualization uses 'job', 'sex', 'year', and 'perc'. The bar chart will show the average percentage for each job category separated by sex and year, with error bars representing the standard deviation. This allows for comparison of average representation across genders within each job type a..."
visualization str	"Bar chart showing the average 'perc' for each 'job' category, separated by 'sex' and faceted by 'year'. Error bars showing standard deviations should be included."

How does the average "perc" value for each job category vary by sex across different years?

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