- Home
- Dashboard
- Instruction to get API KEY
- Overview
- Data Report
- LIDA's functions
- LIDA Tasks

Sections

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
Limit 200MB per file • CSV

Browse files

heart.csv 32.1KB

Successfully uploaded a CSV file with 886 rows of data.

| | e | sex | cp | trestbps | chol | fbs | restecg | thalach | exang | oldpeak | slope | ca | thal | target |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 46 | 1 | 0 | 120 | 249 | 0 | 0 | 144 | 0 | 0.8 | 2 | 0 | 3 | 0 |
| 1 | 71 | 0 | 1 | 160 | 302 | 0 | 1 | 162 | 0 | 0.4 | 2 | 2 | 2 | 1 |
| 2 | 71 | 0 | 1 | 160 | 303 | 0 | 1 | 163 | 0 | 0.4 | 2 | 2 | 2 | 1 |
| 3 | 71 | 0 | 1 | 160 | 304 | 0 | 1 | 164 | 0 | 0.4 | 2 | 2 | 2 | 1 |
| 4 | 71 | 0 | 1 | 160 | 305 | 0 | 1 | 165 | 0 | 0.4 | 2 | 2 | 2 | 1 |

No missing or duplicate values found in the data.

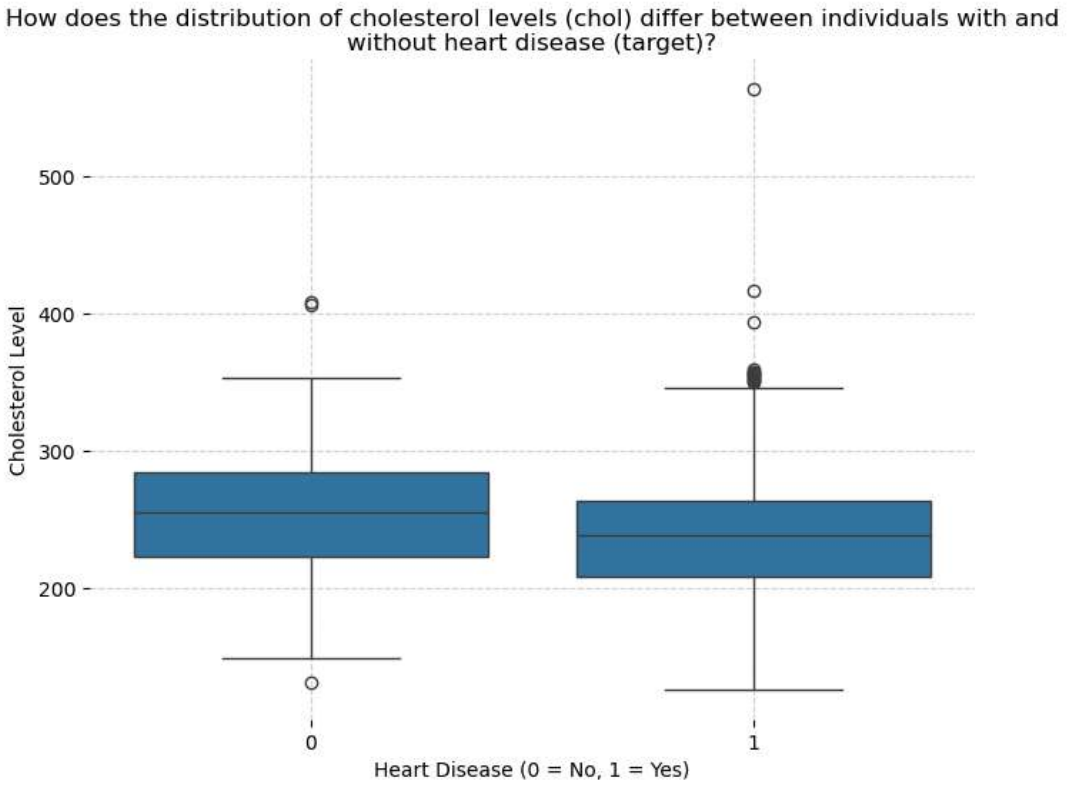
Generate Charts

## ✷ Insight 0:

main() Goal Goal(question='How does the distribution of cholesterol levels (chol) differ between individuals with and without heart disease (target)?', visualization='Box plot of chol split by target', rationale='A box plot allows for a visual comparison of the central tendency, spread, and potential outliers i...

A visualization goal

| | |
|---|---|
| **index** int | 0 |
| **question** str | 'How does the distribution of cholesterol levels (chol) differ between individuals with and without heart disease (target)?' |
| **rationale** str | 'A box plot allows for a visual comparison of the central tendency, spread, and potential outliers in cholesterol levels between the two groups. This helps identify potential correlations between cholesterol and heart disease.' |
| **visualization** str | 'Box plot of chol split by target' |




ʕっ•ᴥ•ʔっ Download Chart

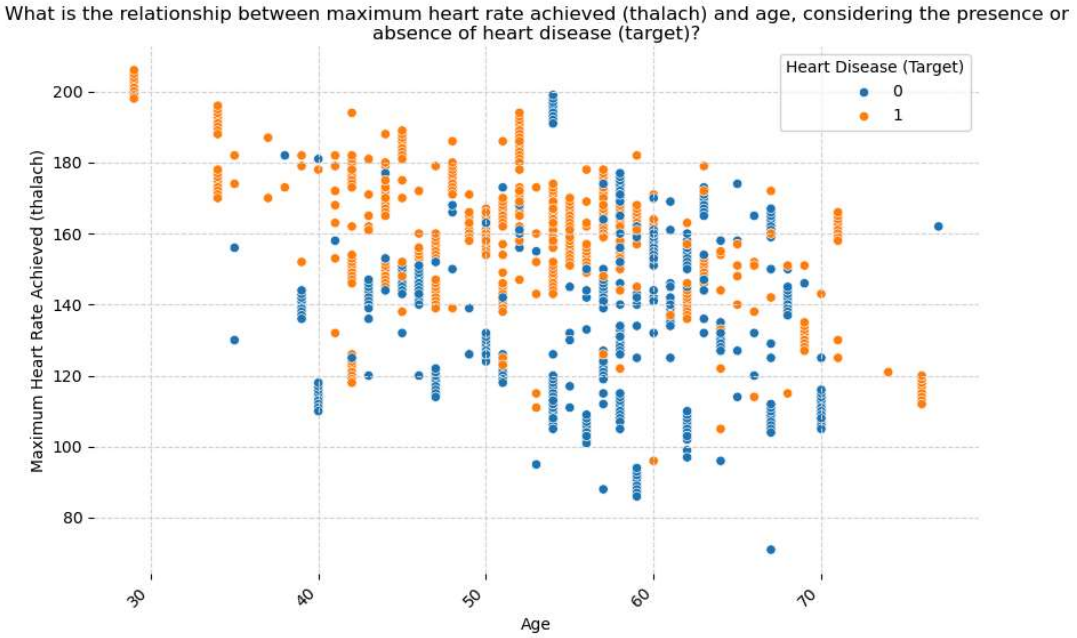
VizOps

## ✷ Insight 1:

```
main() Goal Goal(question='What is the relationship between maximum heart rate achieved (thalach) and age, considering the presence or absence of heart disease (target)?', visualization='Scatter plot of thalach vs. age, colored by target', rationale='This visualization helps explore the potential interaction ef...
```

A visualization goal

| | |
|---|---|
| index int | 1 |
| question str | 'What is the relationship between maximum heart rate achieved (thalach) and age, considering the presence or absence of heart disease (target)?' |
| rationale str | 'This visualization helps explore the potential interaction effect of age and maximum heart rate on heart disease. Color-coding by target allows for easy comparison of the trends across the two groups.' |
| visualization str | 'Scatter plot of thalach vs. age, colored by target' |

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VizOps

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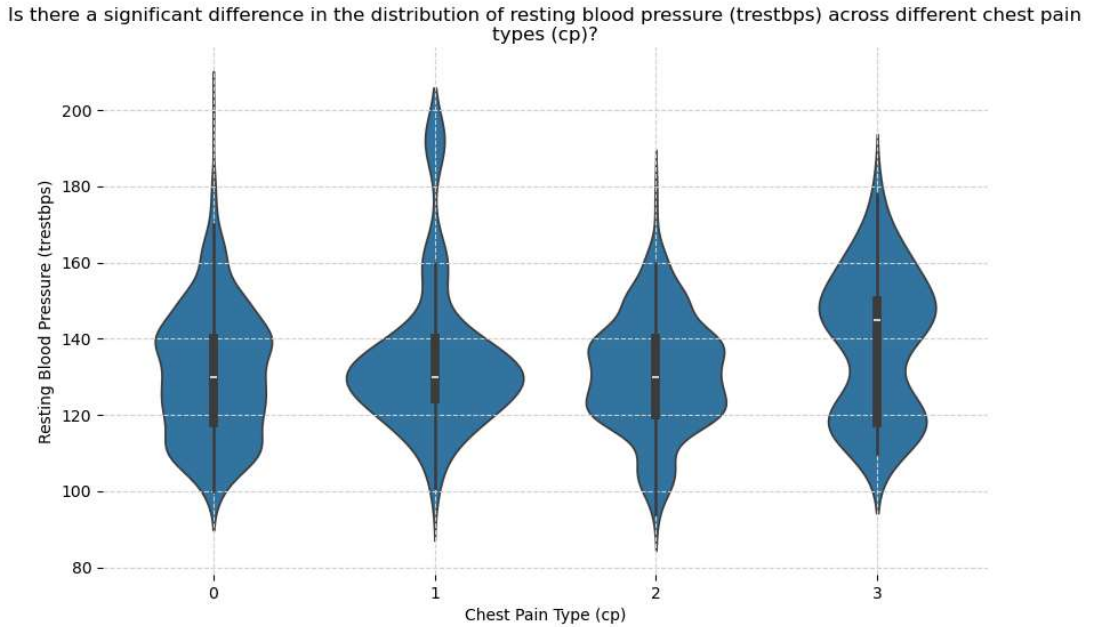
## ✷ Insight 2:

main() Goal Goal(question='Is there a significant difference in the distribution of resting blood pressure (trestbps) across different chest pain types (cp)?',

visualization='Violin plot of trestbps grouped by cp', rationale='Violin plots combine the benefits of box plots and kernel density estimations, providi...

A visualization goal

| | |
|---|---|
| **index** int | 2 |
| **question** str | 'Is there a significant difference in the distribution of resting blood pressure (trestbps) across different chest pain types (cp)?' |
| **rationale** str | 'Violin plots combine the benefits of box plots and kernel density estimations, providing a richer understanding of the distribution of resting blood pressure for each chest pain type. This can reveal potential relationships between chest pain type and blood pressure.' |
| **visualization** str | 'Violin plot of trestbps grouped by cp' |

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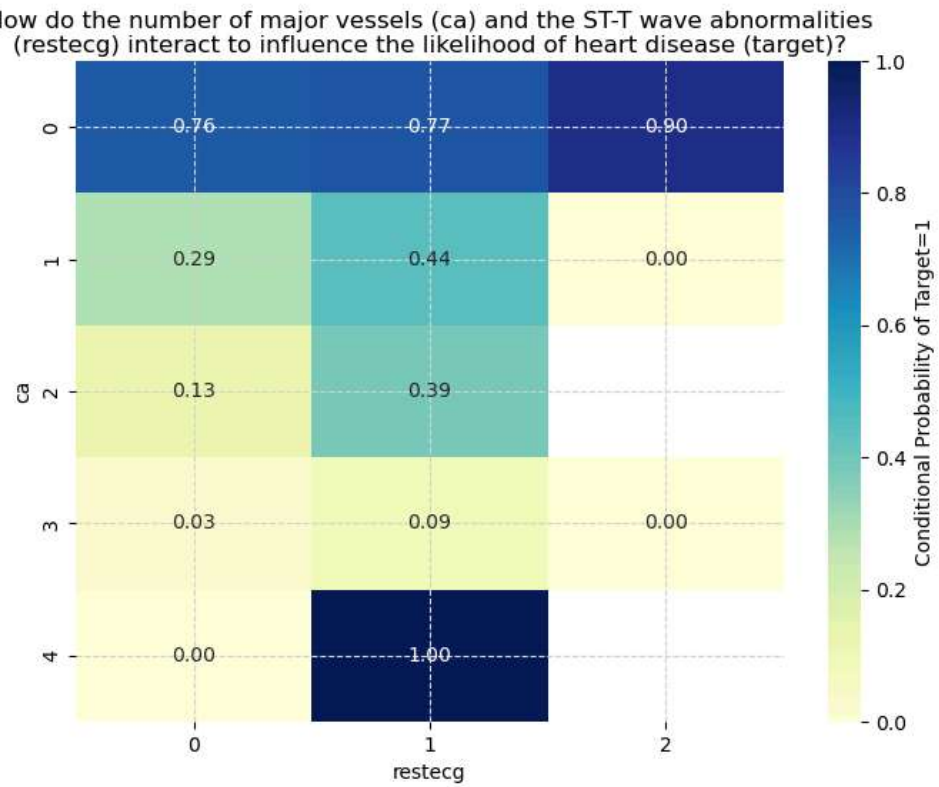
VizOps

## ✷ Insight 3:

**main()** Goal Goal(question='How do the number of major vessels (ca) and the ST-T wave abnormalities (restecg) interact to influence the likelihood of heart disease (target)?', visualization='Heatmap showing the count of individuals for each combination of ca and restecg, with conditional probabilities of target=...

A visualization goal

| | |
|---|---|
| **index** int | 3 |
| **question** str | 'How do the number of major vessels (ca) and the ST-T wave abnormalities (restecg) interact to influence the likelihood of heart disease (target)?' |
| **rationale** str | 'A heatmap visualizes the joint distribution of ca and restecg, allowing for the identification of combinations that are strongly associated with heart disease. Adding conditional probabilities of target=1 provides a direct measure of risk for each combination.' |
| **visualization** str | 'Heatmap showing the count of individuals for each combination of ca and restecg, with conditional probabilities of target=1' |

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VizOps

## ✷ Insight 4:

```
main() Goal Goal(question='What is the combined effect of age, sex, and cholesterol (chol) on the likelihood of heart disease (target)?', visualization='3D scatter plot of age, sex (coded numerically), and chol, colored by target', rationale='A 3D scatter plot allows for the visualization of the relationship be...
```

A visualization goal

| | |
|---|---|
| **index** int | 4 |
| **question** str | 'What is the combined effect of age, sex, and cholesterol (chol) on the likelihood of heart disease (target)?' |
| **rationale** str | 'A 3D scatter plot allows for the visualization of the relationship between three continuous and one categorical variable. Color-coding by target allows for the identification of regions in the 3D space where the likelihood of heart disease is higher or lower.' |
| **visualization** str | '3D scatter plot of age, sex (coded numerically), and chol, colored by target' |