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students

CSV

can you find how many students are there in data set

Hide code 🔗



Analysis ▾

Python



```
import pandas as pd
```

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Tools



Gemini can make mistakes, so double-check it



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Python



```
import pandas as pd

# Load the dataframe.
df = pd.read_csv('students.csv')

# Get the number of rows.
total_students = df.shape[0]

# Print the total number of students.
print(f'Total number of students in the dataset: {total_students}')
```

Code output

Total number of students in the dataset: 50

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There are **50** students in the provided dataset.

how many males vs females are there in the .csv

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Analysis ▾

Python



```
import pandas as pd
```

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Python



```
import pandas as pd

# Load the dataframe.
df = pd.read_csv('students.csv')

# Get the count of males and females.
gender_counts = df['gender'].value_counts()

# Print the counts.
print(gender_counts)
```

Code output

```
F    25
M    25
Name: gender, dtype: int64
```

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Code output

```
F    25  
M    25  
Name: gender, dtype: int64
```

There are an equal number of male and female students in the dataset, with **25** of each.

which major has the highest attendance rate in .csv

Hide code

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Analysis

Python



```
import pandas as pd

# Load the dataframe.
df = pd.read_csv('students.csv')

# Group by 'major' and calculate the mean of 'attendance_rate'.
average_attendance_by_major = df.groupby('major')['attendance_rate'].mean()

# Find the major with the highest average attendance rate.
major_with_highest_attendance = average_attendance_by_major.idxmax()
highest_attendance_rate = average_attendance_by_major.max()

# Print the result.
print(f"The major with the highest attendance rate is '{major_with_highest_attendance}'")
```

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Python



Code output

The major with the highest attendance rate is 'Math' with an average attendance ra

The major with the highest attendance rate in the dataset is **Math**, with an average attendance rate of **95.25%**.



can you plot a bar chart of attendance rate broken down by major

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Analysis

Python

```
import pandas as pd
import matplotlib.pyplot as plt

# Load the dataframe.
df = pd.read_csv('students.csv')

# Calculate the average attendance rate for each major.
average_attendance_by_major = df.groupby('major')['attendance_rate'].mean().sort_v

# Create a bar chart.
plt.figure(figsize=(10, 6))
average_attendance_by_major.plot(kind='bar', color='skyblue')
plt.title('Average Attendance Rate by Major')
plt.xlabel('Major')
```

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Python

```
average_attendance_by_major.plot(kind='bar', color='skyblue')
plt.title('Average Attendance Rate by Major')
plt.xlabel('Major')
plt.ylabel('Average Attendance Rate (%)')
plt.xticks(rotation=45, ha='right')
plt.tight_layout()
plt.savefig('attendance_rate_by_major.png')

print("Bar chart of attendance rate broken down by major saved as 'attendance_rate_by_major.png'")
```

Code output

Bar chart of attendance rate broken down by major saved as 'attendance_rate_by_major.png'

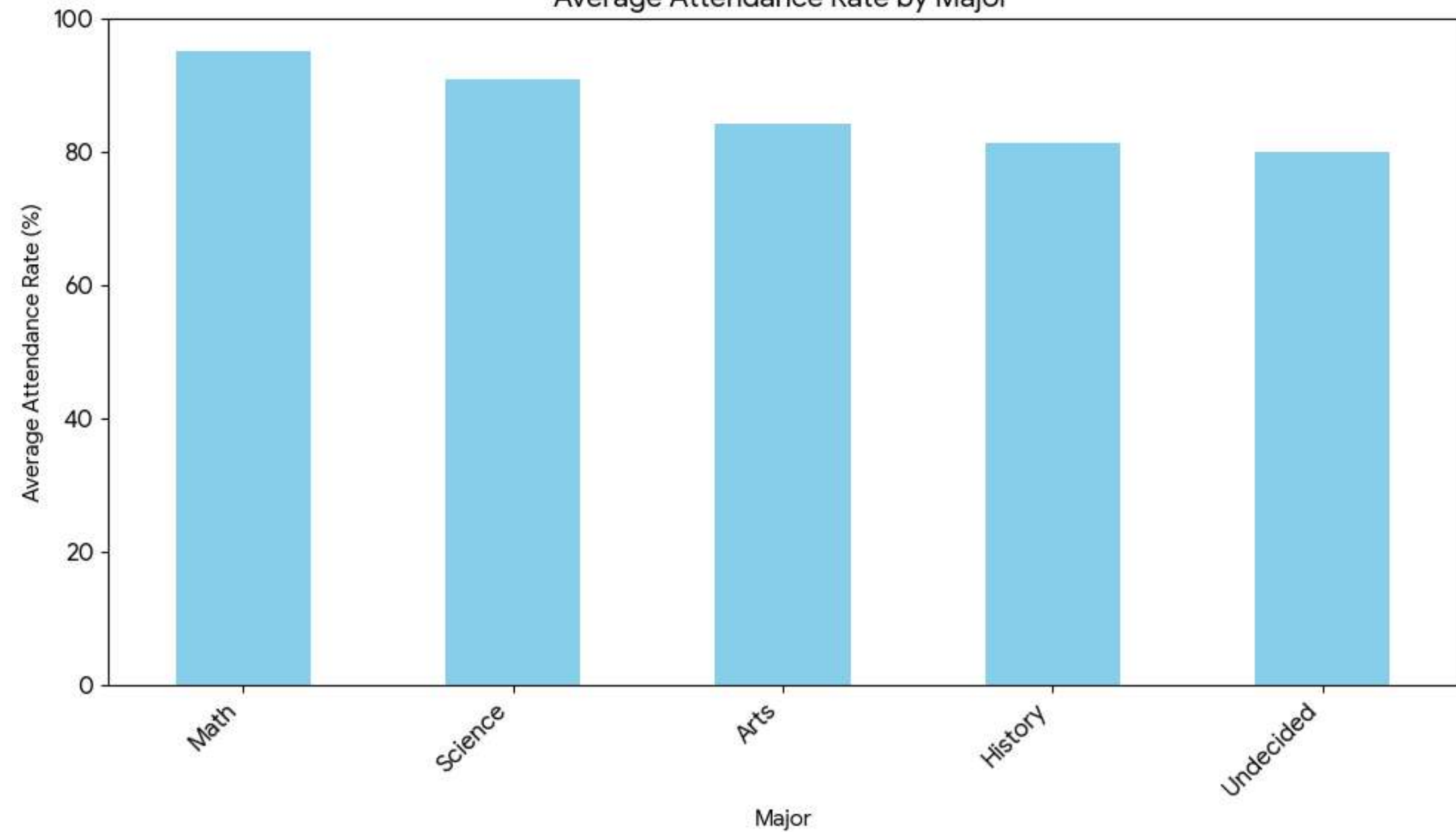
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Average Attendance Rate by Major



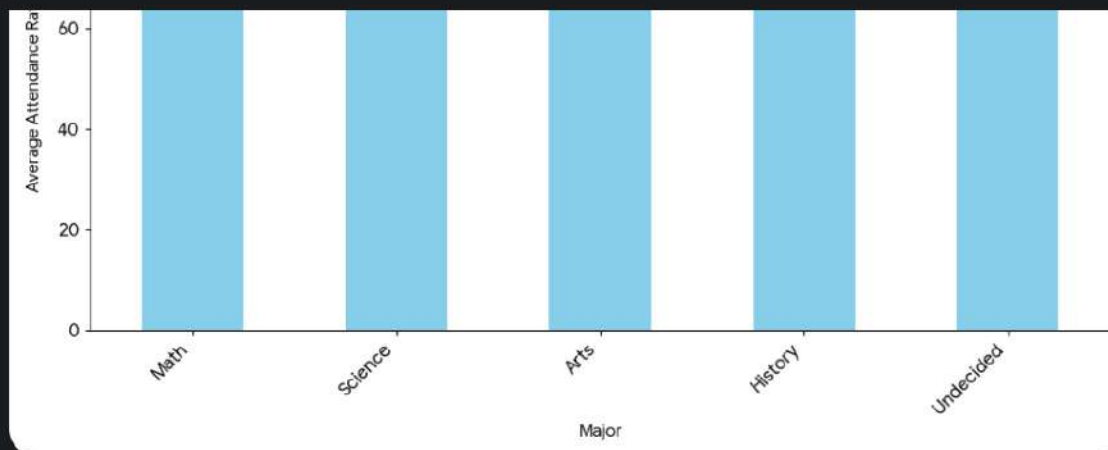
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Here is the bar chart showing the average attendance rate for each major.

From the chart, you can see that the **Math** major has the highest average attendance rate, while the **Arts** major has the lowest.

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