CSV Data Analysis & Visualization

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december_temperature_usa_2024_pivoted.csv 17.8KB

Dataset Overview

Number of rows: 50

Number of columns: 63

Preview of Data

	State	Average_Temperature_Min_F_2024-12-01	Average_Temperature_Min_F_2024-12-02	Average_
0	Alabama	35.2	34	
1	Alaska	10.9	11.8	
2	Arizona	42.5	43.2	
3	Arkansas	30.2	32.1	
4	California	44.7	47.8	

Custom Query

Enter your query like : how does gender distribute in decision to pursue mba

how is the temperature of alabama comparing to california

Generate Response

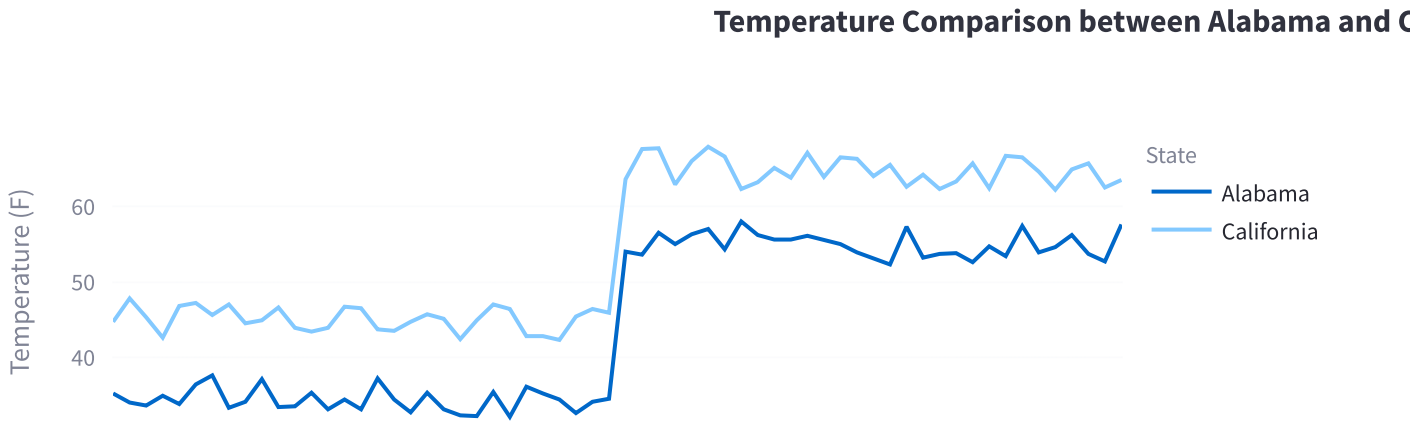
Generated Python Code:

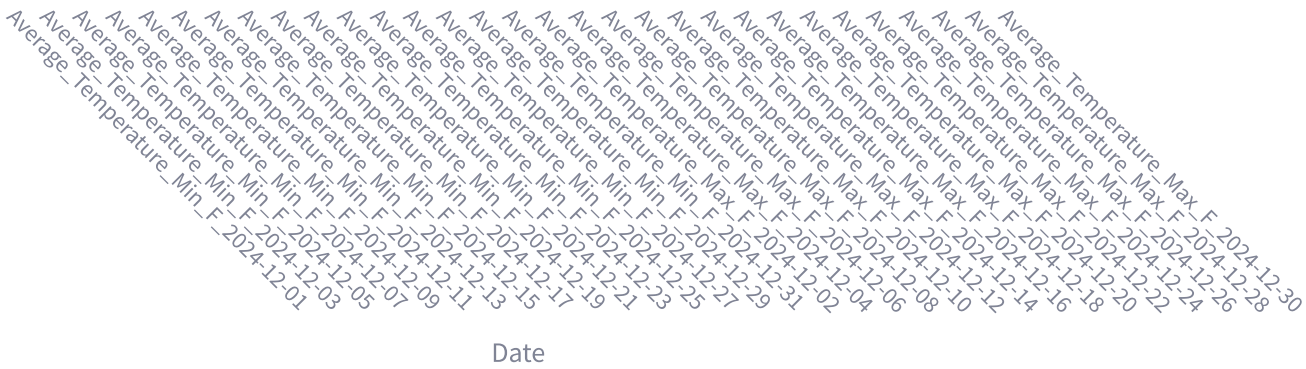
```
import plotly.express as px
import pandas as pd

# Select relevant columns for Alabama and California
df_alabama = df[df['State'] == 'Alabama'][[col for col in df.columns if 'Temperatu
df_california = df[df['State'] == 'California'][[col for col in df.columns if 'Tem
```

```
df_combined = pd.concat([df_alabama, df_california])

df_combined = df_combined.melt(id_vars='State', var_name='Date', value_name='Tempe

# Plot the temperature trends
title = 'Temperature Comparison between Alabama and California in December 2024'
fig = px.line(df_combined, x='Date', y='Temperature', color='State', title=title)
fig.update_xaxes(tickangle=45, title='Date')
fig.update_yaxes(title='Temperature (F)')
fig.update_layout(title={'x':0.5})
```

The visualization shows the trend of minimum and maximum temperatures for the states of Alabama and California throughout December 2024. Observing this graph, you can compare the daily temperature variation and identify that generally, California experiences higher temperatures compared to Alabama during this month.

Generated Visualization: fig




Average_Temperature_Max_F_2024-12-01
Average_Temperature_Max_F_2024-12-02
Average_Temperature_Max_F_2024-12-03
Average_Temperature_Max_F_2024-12-04
Average_Temperature_Max_F_2024-12-05
Average_Temperature_Max_F_2024-12-06
Average_Temperature_Max_F_2024-12-07
Average_Temperature_Max_F_2024-12-08
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Average_Temperature_Min_F_2024-12-27
Average_Temperature_Min_F_2024-12-28
Average_Temperature_Min_F_2024-12-29
Average_Temperature_Min_F_2024-12-30
Average_Temperature_Min_F_2024-12-31
Date