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EDA - test_VisualizeDatawithRightCharts.ipynb

Explorer

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- DA314_S4_Order... U
- test_SearchandRe... U
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  - coffee_sales.csv
  - matplotlib-cheat... M
  - matplotlib-cheat... M
  - numpy-cheatsheet.py
  - pandas-cheatsheet.py
  - pandas-csv-template.py

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test_AccessDatafromDataFrame.py M | test_AppendRowsandColumns.py U | test_VisualizeDatawithRightCharts.ipynb U | DA314_S4_OrderDetails_Data_Concept.csv U | test_SearchandReplaceElements.py U | test_UpdateandDeleteData.py U

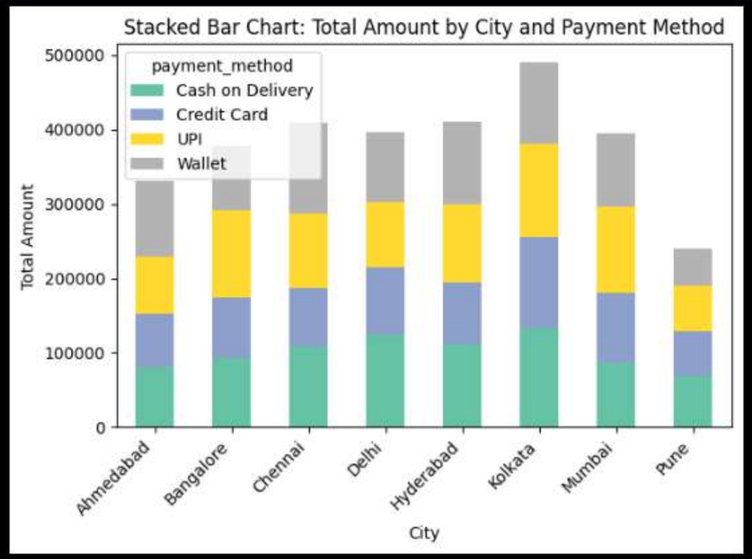
python > Day 4 > test_VisualizeDatawithRightCharts.ipynb > #Scatter Plot

+ Code + Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline ... venv (Python 3.12.10)

```python
#Clustered Bar Chart
stacked_data = order_data.groupby(['city_user', 'payment_method'])['total_amount'].sum().unstack()
custom_colors = ['#66c2a5', '#8da0cb', '#ffd92f', '#b3b3b3']
stacked_data.plot(
    kind='bar',
    stacked=True,
    color=custom_colors,
    # figsize=(12, 7)
)

plt.xlabel('City')
plt.ylabel('Total Amount')
plt.title('Stacked Bar Chart: Total Amount by City and Payment Method')
plt.xticks(rotation=45, ha='right')
plt.tight_layout()
plt.show()
```

[100] ✓ 0.1s Python



master* Launchpad 0 0 Git Graph | Ln 1, Col 21 Spaces: 4 CRLF Cell 7 of 9 Go Live Free - Upgrade Now Windsurf - Settings

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python > Day 4 > test_VisualizeDatawithRightCharts.ipynb > #Scatter Plot

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```
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stacked_data = order_data.groupby(['city_user', 'payment_method'])['total_amount'].sum().unstack()
custom_colors = ['#66c2a5', '#8da0cb', '#ffd92f', '#b3b3b3']
stacked_data.plot(
    kind='bar',
    stacked=True,
    color=custom_colors,
    # figsize=(12, 7)
)
    Ctrl+K for Command, Ctrl+L for Cascade
plt.xlabel('City')
plt.ylabel('Total Amount')
plt.title('Stacked Bar Chart: Total Amount by City and Payment Method')
plt.xticks(rotation=45, ha='right')
plt.tight_layout()
plt.show()
```
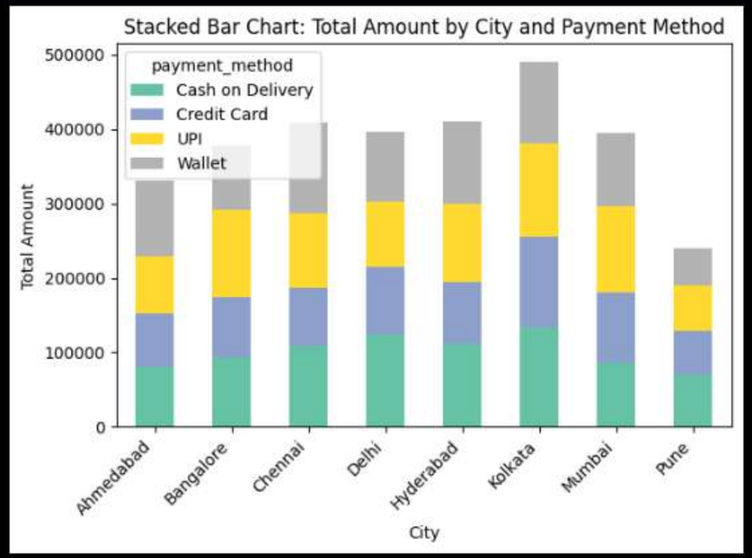

[101] ✓ 0.1s Python



#Clustered Bar Chart

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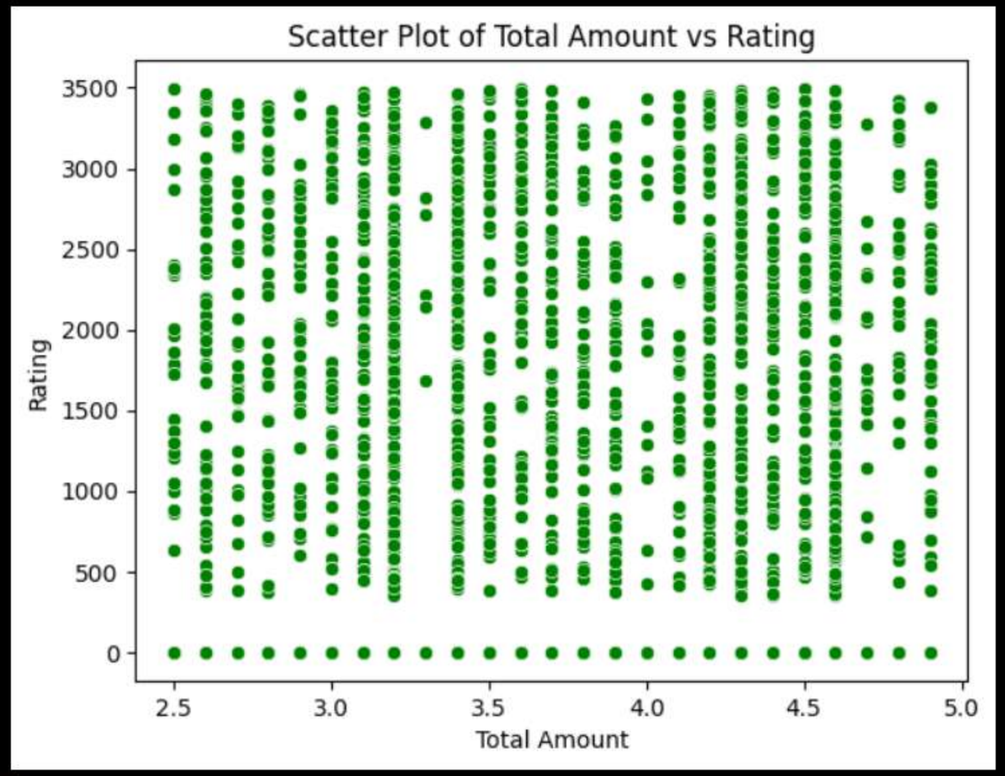
Outline

Timeline

```
#Scatter Plot
sns.scatterplot(y=orders['total_amount'], x=orders['rating'] , color='green')
plt.xlabel('Total Amount')
plt.ylabel('Rating')
plt.title('Scatter Plot of Total Amount vs Rating')
plt.show()
    Ctrl+K for Command, Ctrl+L for Cascade
```

[104] ✓ 0.0s Python



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python > Day 4 > test_VisualizeDatawithRightCharts.ipynb > #Bar Chart 2

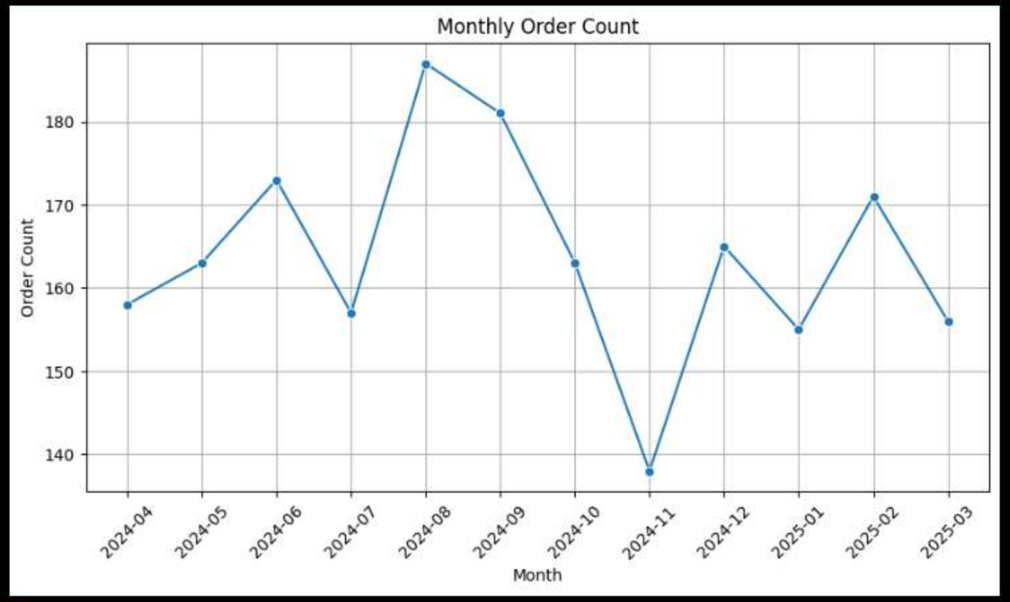
+ Code + Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline ...

venv (Python 3.12.10)

```python
#Line Chart
orders['order_date'] = pd.to_datetime(orders['order_date'], dayfirst=True, errors='coerce')
orders.dropna(subset=['order_date'], inplace=True)
plt.figure(figsize=(10, 5))
plt.grid(True)
orders['month'] = orders['order_date'].dt.to_period('M').astype(str)
monthly_order_count = orders.groupby('month')['total_amount'].count().reset_index()
sns.lineplot(x=monthly_order_count['month'], y=monthly_order_count['total_amount'] , marker='o')
plt.title('Monthly Trend of Order Count')
plt.xlabel('Month')
plt.xticks(rotation=45)
plt.ylabel('Order Count')

plt.show()
```

[81] ✓ 0.1s Python




```python
#Scatter Plot
```

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python > Day 4 > test_VisualizeDatawithRightCharts.ipynb > #Bar Chart 2

+ Code + Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline

venv (Python 3.12.10)

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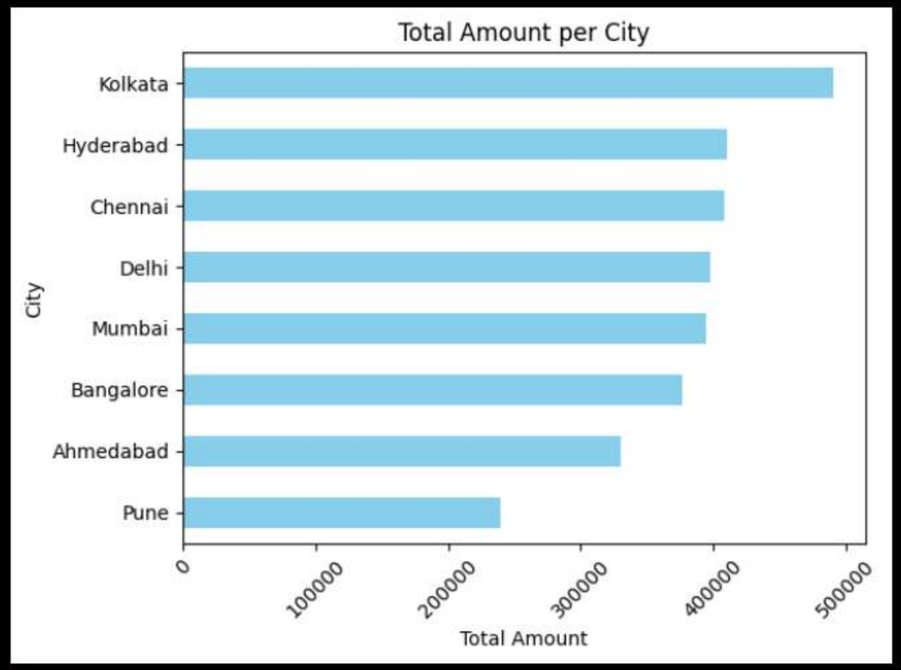
```python
#Bar Chart 2
city_orders = orders.groupby('city_restaurant')['total_amount'].sum().reset_index()
city_orders.sort_values(by='total_amount', ascending=True, inplace=True)
city_orders.plot(kind='barh', x='city_restaurant', y='total_amount',color='#87ceeb')
plt.title('Total Amount per City')
plt.xlabel('Total Amount')
plt.ylabel('City')
plt.xticks(rotation=45)
plt.tight_layout()
plt.legend().set_visible(False)
plt.show()
```

[103] ✓ 0.0s Python



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python > Day 4 > test_VisualizeDatawithRightCharts.ipynb > #Pie Chart

+ Code + Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline | venv (Python 3.12.10)

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  - matplotlib-cheat... M
  - numpy-cheatsheet.py
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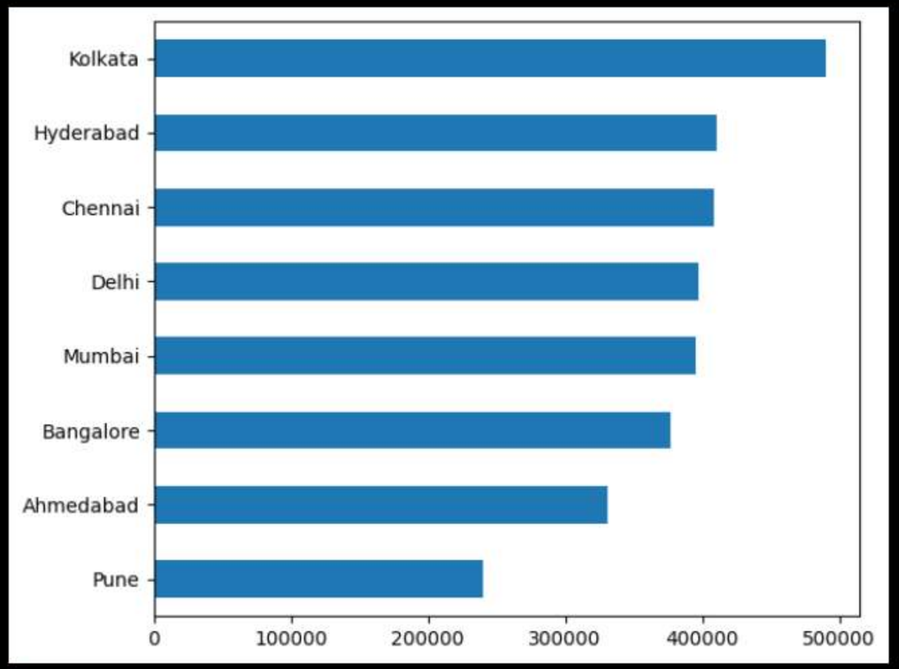
  - pandas-csv-template.py

Outline
Timeline

```python
# Bar Chart 1
city_orders = orders.groupby('city_restaurant')['total_amount'].sum().reset_index()
city_orders.sort_values(by='total_amount', ascending=True, inplace=True)
city_orders.plot(kind='barh', x='city_restaurant', y='total_amount')
plt.legend().set_visible(False)
plt.ylabel('')
plt.tight_layout()
plt.show()
```

[62] ✓ 0.2s Python



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  - pandas-cheatsheet.py
  - pandas-csv-template.py

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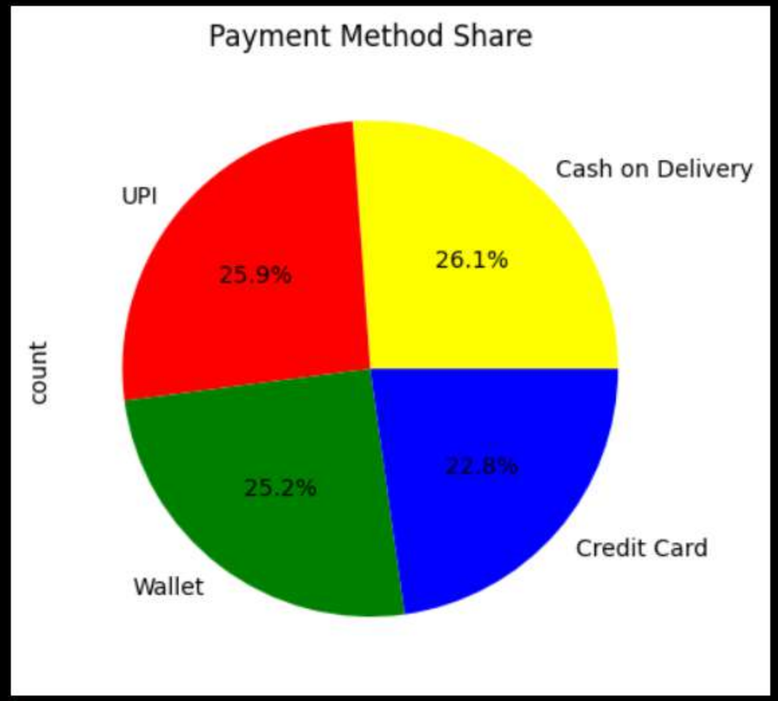
python > Day 4 > test_VisualizeDatawithRightCharts.ipynb > #Pie Chart

+ Code + Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline ... venv (Python 3.12.10)

```
#Pie Chart
payment_counts = orders['payment_method'].value_counts()
colors = ['blue' if label == 'Credit Card' else 'green' if label == 'Wallet' else 'red' if label == 'UPI' else 'yellow' for label in pa
payment_counts.plot(kind='pie', autopct='%1.1f%%', title='Payment Method Share', colors=colors)
```

[102] ✓ 0.0s Python

```
<Axes: title={'center': 'Payment Method Share'}, ylabel='count'>
```



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