

File Edit Selection View Go Run Terminal Help ← → EDA - test\_VisualizeDatawithRightCharts.ipynb

Explorer ... test\_AccessDatafromDataFrame.py M test\_AppendRowsandColumns.py U test\_VisualizeDatawithRightCharts.ipynb X DA314\_S4\_OrderDetails\_Data\_Concept.csv U test\_SearchandReplaceElements.py U test\_UpdateandDeleteData.py U venv (Python 3.12.10)

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

```
#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

Stacked Bar Chart: Total Amount by City and Payment Method

The chart displays the total amount for each city, broken down by payment method. The total amount per city ranges from approximately 240,000 (Pune) to 480,000 (Kolkata). The payment methods are stacked vertically within each bar.

City	Cash on Delivery	Credit Card	UPI	Wallet	Total Amount
Ahmedabad	~80,000	~70,000	~60,000	~50,000	~240,000
Bangalore	~90,000	~80,000	~70,000	~60,000	~280,000
Chennai	~110,000	~90,000	~80,000	~70,000	~350,000
Delhi	~120,000	~100,000	~90,000	~80,000	~390,000
Hyderabad	~100,000	~90,000	~80,000	~70,000	~340,000
Kolkata	~130,000	~120,000	~110,000	~100,000	~480,000
Mumbai	~110,000	~90,000	~80,000	~70,000	~360,000
Pune	~70,000	~60,000	~50,000	~40,000	~240,000

Outline Timeline

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#Stacked 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()

[181] ✓ 0.1s Python

Stacked Bar Chart: Total Amount by City and Payment Method

The chart displays the total amount for each city, broken down by payment method. The total amount per city ranges from approximately 240,000 (Ahmedabad) to 480,000 (Kolkata). The distribution of payment methods varies by city, with some cities showing higher proportions of certain methods like UPI or Wallet.

City	Cash on Delivery	Credit Card	UPI	Wallet	Total Amount
Ahmedabad	80,000	70,000	60,000	50,000	240,000
Bangalore	100,000	80,000	90,000	40,000	290,000
Chennai	120,000	90,000	80,000	60,000	350,000
Delhi	130,000	100,000	90,000	50,000	370,000
Hyderabad	110,000	90,000	100,000	60,000	360,000
Kolkata	140,000	110,000	80,000	70,000	480,000
Mumbai	100,000	90,000	90,000	60,000	340,000
Pune	70,000	60,000	50,000	40,000	220,000

Outline Timeline

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Explorer ...

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#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

...

Monthly Order Count

Month	Order Count
2024-04	158
2024-05	163
2024-06	173
2024-07	156
2024-08	185
2024-09	181
2024-10	163
2024-11	138
2024-12	165
2025-01	155
2025-02	172
2025-03	155

Outline

Timeline #Scatter Plot

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python > Day 4 > test\_VisualizeDatawithRightCharts.ipynb > #Bar Chart 2

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venv (Python 3.12.10)

#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

Total Amount per City

City	Total Amount
Kolkata	~480,000
Hyderabad	~410,000
Chennai	~410,000
Delhi	~390,000
Mumbai	~390,000
Bangalore	~370,000
Ahmedabad	~330,000
Pune	~230,000

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python > Day 4 > test\_VisualizeDatawithRightCharts.ipynb > #Pie Chart

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# 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

...

City	Total Amount (approx.)
Kolkata	490,000
Hyderabad	410,000
Chennai	410,000
Delhi	400,000
Mumbai	400,000
Bangalore	380,000
Ahmedabad	330,000
Pune	240,000

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python > Day 4 > test\_VisualizeDatawithRightCharts.ipynb > #Pie Chart

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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 payment_counts]
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'>

...

Payment Method Share

UPI  
Cash on Delivery  
26.1%  
25.9%  
25.2%  
Credit Card  
Wallet

count

Outline

Timeline

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