In [1]:

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

# Load the data
data = pd.read_csv('Data Cleaning and Preprocessing.csv')

# Convert 'Observation' column to categorical values for better plotting c
data['Observation'] = data['Observation'].astype(str)

# Set up the figure and axis for a bar chart and a line chart
fig, (ax1, ax2) = plt.subplots(2, 1, figsize=(14, 10), sharex=True)

# Bar chart for 'Y-Kappa'
ax1.bar(data['Observation'], data['Y-Kappa'], color='skyblue', label='Y-Ka
ax1.set_title("Bar Chart: Y-Kappa by Observation")
ax1.set_ylabel("Y-Kappa")
ax1.legend(loc='upper left')
ax1.tick_params(axis='x', rotation=90)

# Line chart for 'ChipRate'
ax2.plot(data['Observation'], data['ChipRate'], color='salmon', marker='o
ax2.set_title("Line Chart: ChipRate by Observation")
ax2.set_xlabel("Observation")
ax2.set_ylabel("ChipRate")
ax2.legend(loc='upper left')
ax2.tick_params(axis='x', rotation=90)

# Adjust layout and display the charts
plt.tight_layout()
plt.show()
```