Graph

July 31, 2024

```python
[1]: import pandas as pd
     import matplotlib.pyplot as plt

     # Load the CSV file into a DataFrame
     df = pd.read_csv('HC_SR04_data_2024-07-30_22-09-50.csv')

     # Convert the Timestamp column to datetime format
     df['Timestamp'] = pd.to_datetime(df['Timestamp'], format='%d/%m/%Y %H:%M')

     # Remove ' cm' from the Distance column and convert it to numeric values
     df['Distance (cm)'] = df['Distance (cm)'].str.replace(' cm', '').astype(float)

     # Create a simple line plot
     plt.plot(df['Timestamp'], df['Distance (cm)'], marker='o', linestyle='-',
       color='blue')

     # Add titles and labels
     plt.title('Distance Data from HC-SR04 Sensor')
     plt.xlabel('Timestamp')
     plt.ylabel('Distance (cm)')

     # Improve layout and display the plot
     plt.xticks(rotation=45)  # Rotate x-axis labels for better readability
     plt.tight_layout()
     plt.show()
```
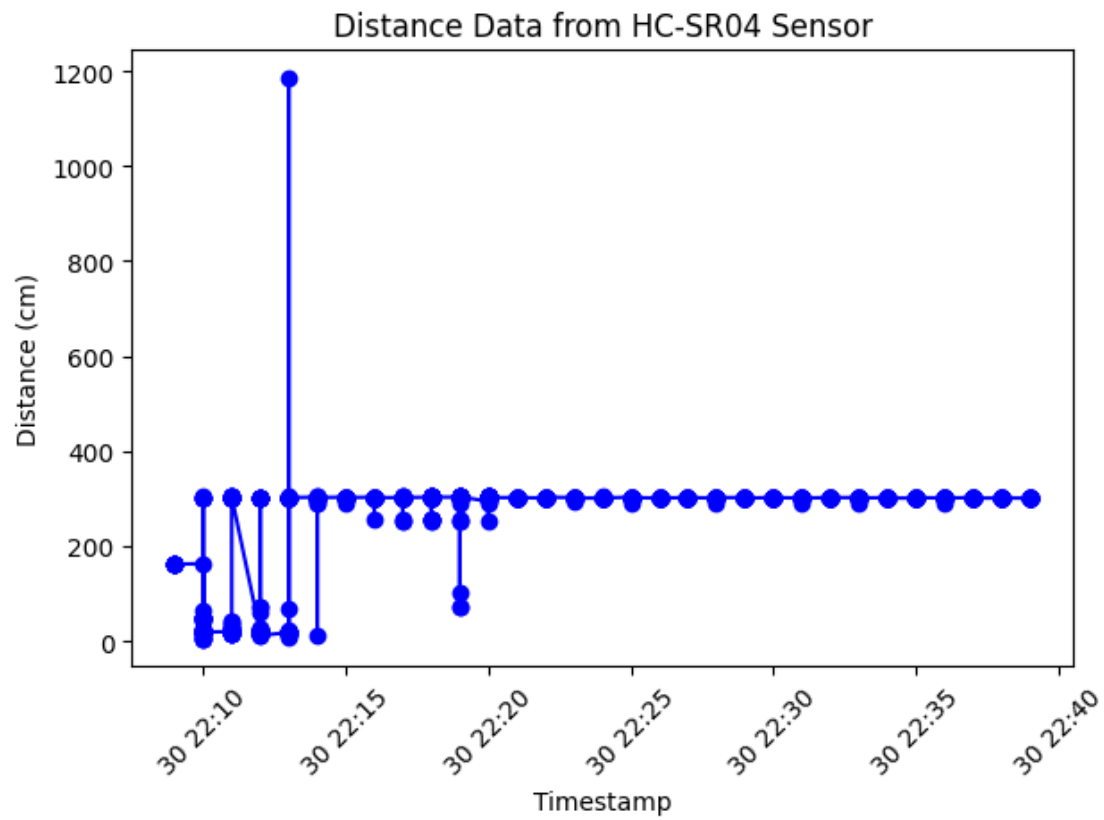
Distance Data from HC-SR04 Sensor

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