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In [ ]: # Import necessary libraries
        import pandas as pd
        import matplotlib.pyplot as plt
        # Load CSV file with accelerometer data
        data = pd.read csv('accelerometer data.csv', names=['Timestamp', 'X', 'Y',
        # Convert timestamp to datetime for easier plotting
        data['Timestamp'] = pd.to datetime(data['Timestamp'])
        # Plot the data
        plt.figure(figsize=(10, 6))
        plt.plot(data['Timestamp'], data['X'], label='X-axis')
        plt.plot(data['Timestamp'], data['Y'], label='Y-axis')
        plt.plot(data['Timestamp'], data['Z'], label='Z-axis')
        plt.xlabel('Time')
        plt.ylabel('Accelerometer Readings')
        plt.title('Accelerometer X, Y, Z Data Over Time')
        plt.legend()
        plt.show()
        # Save filtered data
        filtered data = data[(data['X'] < 50) & (data['Y'] < 50)] # Example filteri
        filtered data.to csv('filtered accelerometer data.csv', index=False)
In [ ]:
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