

DSC640_charts_week3-4

September 17, 2023

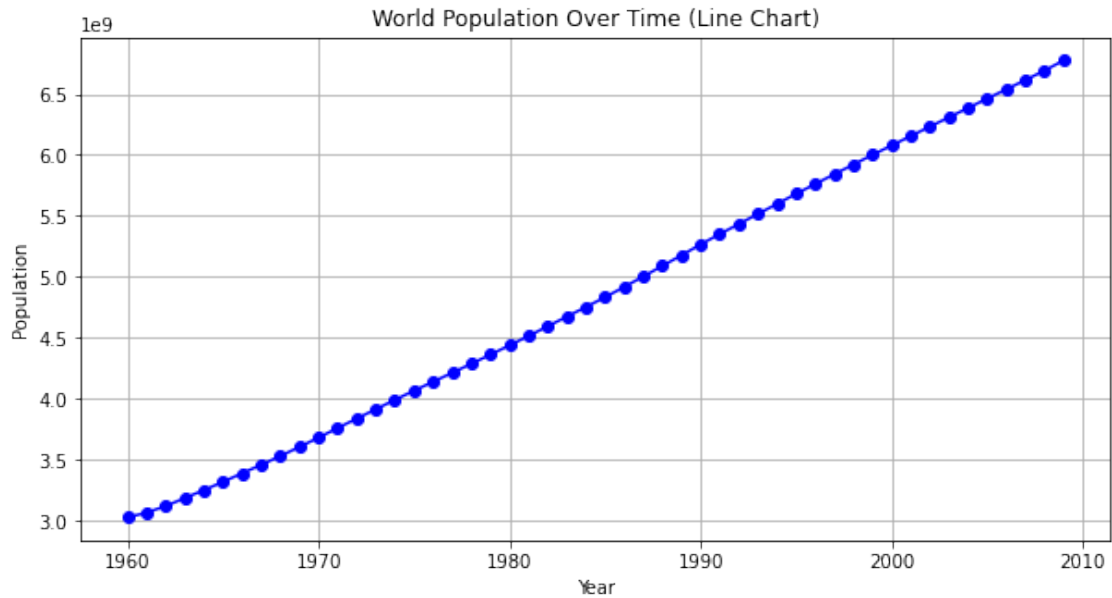
```
[1]: # Import required libraries
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
[2]: # Load data into pandas dataframe
world_pop_df = pd.read_excel('world-population.xlsm')
```

```
[3]: # display sample data
world_pop_df.head()
```

```
[3]:   Year  Population
0  1960  3028654024
1  1961  3068356747
2  1962  3121963107
3  1963  3187471383
4  1964  3253112403
```

```
[5]: # Line Chart
plt.figure(figsize=(10, 5))
plt.plot(world_pop_df['Year'], world_pop_df['Population'], marker='o',
         linestyle='-', color='blue')
plt.title('World Population Over Time (Line Chart)')
plt.xlabel('Year')
plt.ylabel('Population')
plt.grid(True)
plt.show()
```



```
[6]: # Step Chart
plt.figure(figsize=(10, 5))
plt.step(world_pop_df['Year'], world_pop_df['Population'], where='mid',
        color='green')
plt.title('World Population Over Time (Step Chart)')
plt.xlabel('Year')
plt.ylabel('Population')
plt.grid(True)
plt.show()
```

