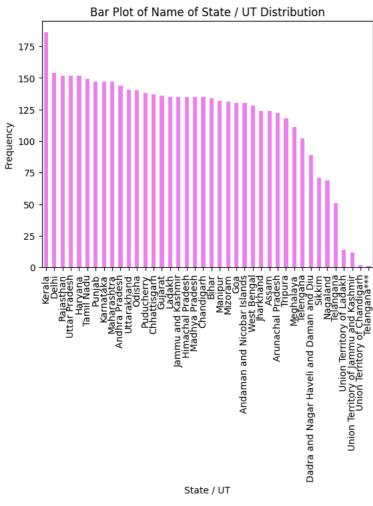
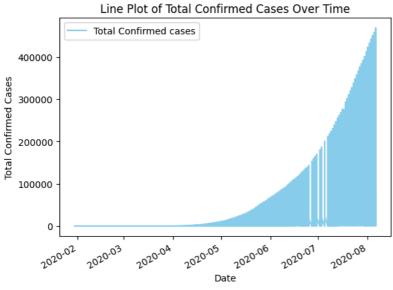
```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np
# Load the COVID-19 dataset from a CSV file
df = pd.read_csv("/content/complete.csv")
# Bar plot of Name of State / UT Distribution
df['Name of State / UT'].value counts().plot(kind="bar", color='Violet')
plt.title("Bar Plot of Name of State / UT Distribution")
plt.xlabel("State / UT")
plt.ylabel("Frequency")
plt.show()
# Line plot of Total Confirmed Cases over Time
df['Date'] = pd.to datetime(df['Date'])
df.plot(kind="line", x='Date', y='Total Confirmed cases', color='skyblue')
plt.title("Line Plot of Total Confirmed Cases Over Time")
plt.xlabel("Date")
plt.ylabel("Total Confirmed Cases")
plt.show()
# Horizontal bar plot of New deaths Distribution
df['New deaths'].value_counts().plot(kind="barh", color='purple')
plt.title("Horizontal Bar Plot of New Deaths Distribution")
plt.xlabel("Frequency")
plt.ylabel("New Deaths")
plt.show()
# Histogram of Latitude
df['Latitude'].plot(kind="hist", bins=30, color='red')
plt.title("Histogram of Latitude")
plt.show()
# Histogram of Longitude
df['Longitude'].plot(kind="hist", bins=30, color='green')
plt.title("Histogram of Longitude")
plt.show()
# Scatter plot of New deaths vs New recovered
plt.scatter(df["New deaths"], df["New recovered"], color='yellow')
plt.title("Scatter Plot of New deaths vs New recovered")
plt.xlabel("New Deaths")
plt.ylabel("New Recovered")
plt.show()
# Pairplot of the dataset
sns.pairplot(df, hue='Name of State / UT', palette='viridis')
plt.show()
# Correlation heatmap of a random matrix (for demonstration)
correlation matrix = np.random.rand(3, 3)
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm')
plt.title("Random Correlation Matrix Heatmap")
plt.show()
```

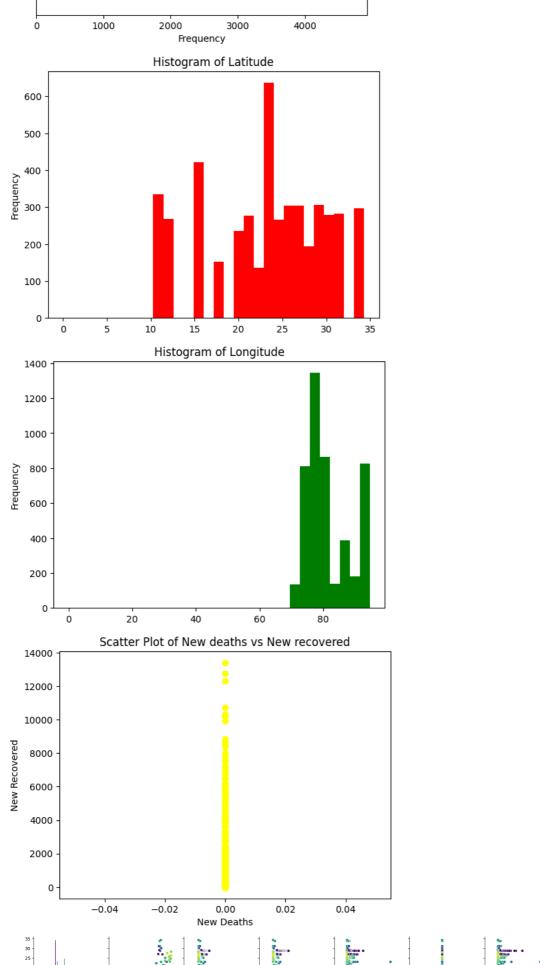


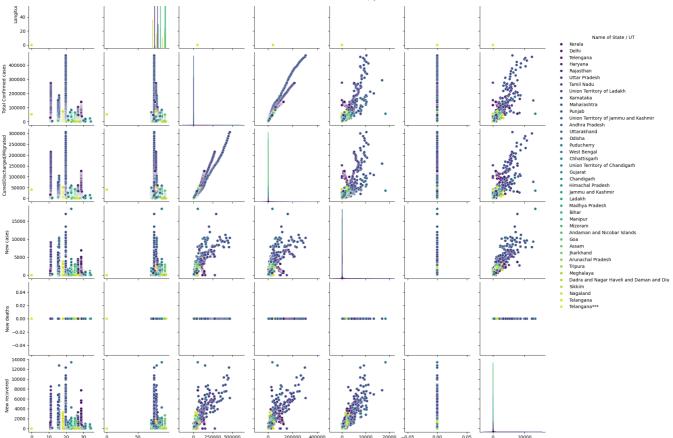




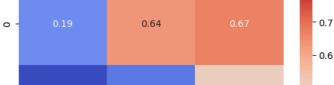
Horizontal Bar Plot of New Deaths Distribution



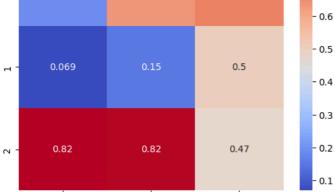




- 0.8



Random Correlation Matrix Heatmap



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