import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

import seaborn as sns

import warnings

warnings.filterwarnings("ignore")

df= pd.read\_csv("country\_vaccinations.csv")

df.head()

A screenshot of a computer

Description automatically generated

df.describe()

A screenshot of a computer program

Description automatically generated

df.dtypes

A screen shot of a computer

Description automatically generated

df["date"]= pd.to\_datetime(df.date)

x= df.groupby("date").daily\_vaccinations.sum()

plt.figure(figsize= (15,5))

sns.lineplot(x.index,x.values)

plt.show()

A graph showing a line

Description automatically generated

df["Total\_vaccinations(count)"]= df.groupby("country").total\_vaccinations.tail(1)

df.groupby("country")["Total\_vaccinations(count)"].mean().sort\_values(ascending= False).head(20)

x= df.groupby("country")["Total\_vaccinations(count)"].mean().sort\_values(ascending= False).head(20)

sns.set\_style("whitegrid")

plt.figure(figsize= (8,8))

ax= sns.barplot(x.values,x.index)

ax.set\_xlabel("Total vaccinations(count)")

plt.show()

A graph of different colored bars

Description automatically generated

df["Full\_vaccinations(count)"]= df.groupby("country").people\_fully\_vaccinated.tail(1)

df.groupby("country")["Full\_vaccinations(count)"].mean().sort\_values(ascending= False).head(20)

sns.set\_style("whitegrid")

plt.figure(figsize= (8,8))

ax= sns.barplot(x.values,x.index)

ax.set\_xlabel("Fully vaccinated(count)")

plt.show()

A graph of different colored bars

Description automatically generated

x= df.groupby("country").daily\_vaccinations.mean().sort\_values(ascending= False).head(20)

x

plt.figure(figsize= (8,8))

ax= sns.barplot(x.values,x.index)

ax.set\_xlabel("daily vaccinations(avg)")

plt.show()

A graph of different colored bars

Description automatically generated

Done by

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