* **COVI - Analyzer Implementation :-**

#In[1]:

import numpy as np

import matplotlib.pyplot as plt

import pandas as pd

import seaborn as sns

read=pd.read\_csv(r"C:\Users\RADHIKA\Downloads\StatewiseTestingDetails.csv")

print(read)

# In[2]:

plt.figure(figsize=(12,4))

ax=sns.lineplot(x="TotalSamples",y="Positive",data=read, hue="State")

# In[3]:

ax=sns.relplot(x="Positive",y="TotalSamples",data=read)

# In[4]:

ax=sns.relplot(x="Negative",y="TotalSamples",data=read)

# In[5]:

plt.figure(figsize=(12,6))

ax=sns.boxplot(x="State",y="TotalSamples",data=read)

# In[6]:

plt.figure(figsize=(13,6))

ax=sns.barplot(x="State",y="TotalSamples",data=read)

# In[7]:

plt.figure(figsize=(12,6))

x=read["TotalSamples"].values

sns.distplot(x,color="Purple")

# In[8]:

plt.figure(figsize=(12,6))

ax=sns.barplot(x="TotalSamples",y="State",data=read,palette="Wistia\_r")

# In[9]:

plt.figure(figsize=(12,6))

ax=sns.scatterplot(x="TotalSamples",y="Positive",data=read,legend="full")

# In[10]:

plt.figure(figsize=(12,6))

ax=sns.catplot(x="TotalSamples",y="State",data=read,legend="full",palette="nipy\_spectral\_r")

# In[11]:

plt.figure(figsize=(12,6))

ax=sns.regplot(x="TotalSamples",y="Positive",data=read)

# In[12]:

plt.figure(figsize=(12,6))

ax=sns.relplot(x="TotalSamples",y="Positive",data=read,hue="State",legend="full",palette="gist\_ncar\_r")

# In[13]:

pc=read[["TotalSamples","Date","State","Positive","Negative"]]

pc

# In[14]:

plt.figure(figsize=(12,5))

ax=sns.lineplot(x="TotalSamples",y="Positive",data=read,hue="Date",legend="full",palette="gnuplot2\_r”

# In[15]:

import plotly.express as px

# In[16]:

pip install plotly

**Algorithm:-**

**Step1:-** Start

**Step2:-** Import numpy,matplotlib.pyplot,pandas,seaborn.

**Step3**:- Import Plotly.express as px

**Step4**:- Install Plotly

**Step5**:- Take input pd.read\_csv file

**Step6**:- Print input

**Step7**:- Take input from dataset

Plot1:- Coordinates(Total Sample, Positive)

Hue(States)

Plot2:- Coordinates(Positive, Total Samples)

Plot3:- Coordinates(Negative, Total Samples)

Plot4:- Coordinates(State, Total Samples)

Plot5:- Coordinates(State, Total Samples)

Plot6:- Coordinates(State, Total Samples)

Plot7:- Cooridinates(x=Total Samples,color= purple)

Plot8:- Coordinates(TotalSamples,State,palette(Wistia\_r))

Plot9:- Coordinates(Total Sample, Positive)

Plot10:- Coordinates(Total Sample, State)

( legend="full",palette="nipy\_spectral\_r")

Plot11:- Coordinates(Total Sample, Positive)

(hue=State,legend=full,palette="gist\_ncar\_r")

Plot12:- PC read

Plot13:- Coordinates(Total Sample, Positive) hue=Date,legend=full,palette="gnuplot2\_r

**Step8**:- End