

Data Visualizations and Certifications

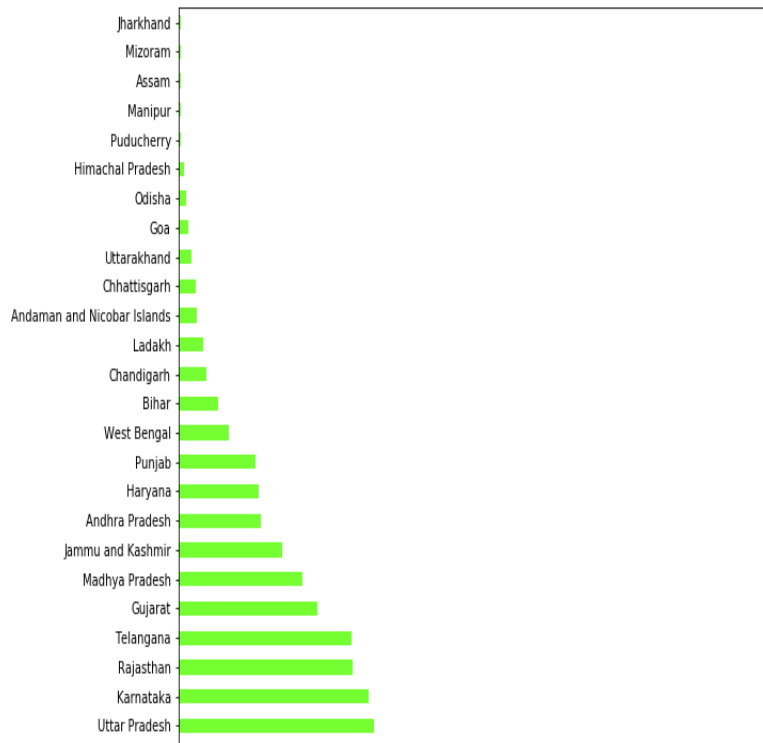
The screenshot shows a Jupyter Notebook environment with the following components:

- Browser Tab:** covid19 - Jupyter Notebook
- Address Bar:** localhost:8888/notebooks/covid19.ipynb#
- Page Header:** jupyter covid19 Last Checkpoint: Last Thursday at 8:37 PM (autosaved) Logout
- Menu Bar:** File Edit View Insert Cell Kernel Widgets Help
- Toolbar:** Includes icons for file operations, running cells, and a dropdown menu set to 'Code'.
- Code Cells:**
 - In [3]:** corona=pd.read_excel("corona.xlsx")
print(corona.columns)

Index(['Patient Number', 'State Patient Number', 'Date Announced', 'Age Bracket', 'Gender', 'Detected City', 'Detected District', 'Detected State', 'Current Status', 'Notes', 'Contracted from which Patient (Suspected)', 'Nationality', 'Type of transmission', 'Status Change Date', 'Source_1', 'Source_2', 'Source_3', 'Backup Notes'],
dtype='object')
 - In [2]:** import pandas as pd
import matplotlib.pyplot as plt
 - In [4]:** corona = pd.read_excel(r'corona.xlsx')
print(corona)
- Output:** A preview of the 'corona' DataFrame is shown, displaying columns: Patient Number, State Patient Number, Date Announced, Age Bracket, and Gender. The data includes rows for various patients, with some missing values (NaN) in the 'State Patient Number' and 'Age Bracket' columns.

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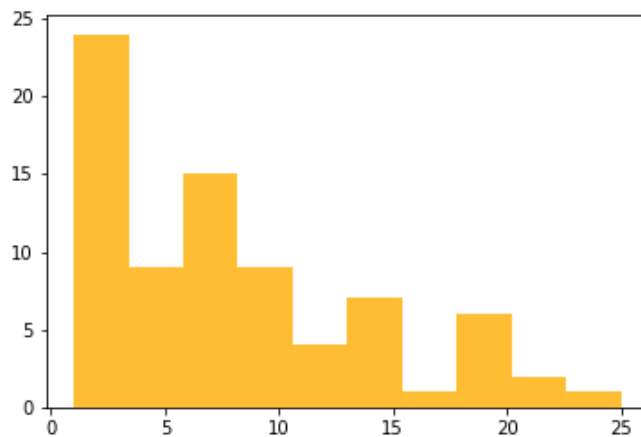
```
In [27]: sta=corona["Detected State"].value_counts();  
sta.plot.barh(figsize=(10,10),color="#75ff33");  
plt.show();
```



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```
In [32]: plt.hist(crna,color="#ffbd33")
plt.show()
```



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