ai_notebook

September 27, 2024

```
import cv2
import plotly.express as px
import plotly.graph_objects as go
from plotly.subplots import make_subplots
import mediapipe as mp
import plotly.io as pio
import custom_theme

import warnings
warnings.filterwarnings('ignore')

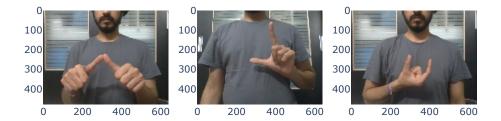
[2]: pio.templates.default = custom_theme.my_theme
pio.renderers.default = "notebook_connected+pdf"
```

1 DATA CREATION

```
[3]: def plot_image(path):
    # Read the image
    img = cv2.imread(path)
    img_rgb = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)
    fig = px.imshow(img_rgb)
    return fig
```

Raw Training Images

Letter A Letter L Letter U

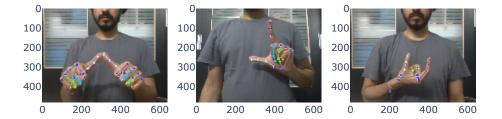


2 DATA EXTRACTION

[5]: #Initialising mediapipe landmark tracing

Letters With Landmark Points

Letter A Letter L Letter U



3 DATA PREDICTION

Detected Letters by using AI

Letter A Letter L Letter U

