**NAME:**

**Instructions:**

**Steps to Perform Yoga Pose Detection:**

1. **Download Data from Kaggle:**

* Open your web browser and open dataset link
* Click on the "Download" button to download the dataset to your computer.
* Ensure to save the downloaded file in a location where you can easily access it.

2. **Extract the Dataset File:**

* Locate the downloaded dataset file on your computer.
* If the dataset is compressed (e.g., in ZIP format), right-click on the file and select "Extract All" to decompress it.
* Choose a destination folder for the extracted files and click "Extract" to extract the contents.

**3. Access Google Teachable Machine:**

* Open your web browser and go to [Teachable Machine.](https://youtu.be/PBK5moNYQS8?si=iiSdXG-MmreFqhwh)

**4. Upload Dataset:**

* Click on the "Get Started" button to begin.
* Select the "Image Project" option.
* Upload the provided dataset containing images of Yoga poses.

**5. Training the Model:**

* Once the dataset is uploaded, click on the "Train Model" button.
* You can also follow Youtube tutorial - [(21) Yoga Pose Detection using Teachable - YouTube](https://www.youtube.com/watch?v=9HS69MFuWtw)
* Wait for the model training process to complete. This may take a few minutes.

**6. Evaluate Model Accuracy:**

* After training, the model accuracy will be displayed.
* Capture a screenshot of the model accuracy and insert it in the space provided below.

**7. Interpret Results:**

* Analyze the results of pose detection and observe how accurately the model identifies different yoga poses
* Try posing in front of the Web camera to check if the model is trained well

**Dataset link -** [Yoga Poses Dataset (kaggle.com)](https://www.kaggle.com/datasets/niharika41298/yoga-poses-dataset?resource=download)

**Software link -** <https://teachablemachine.withgoogle.com/>

**YouTube link-** [(21) Yoga Pose Detection using Teachable - YouTube](https://www.youtube.com/watch?v=9HS69MFuWtw)

**Problem Statement**: Create a machine learning model using the Yoga Poses dataset to classify various yoga poses. The goal is to train a model that can accurately identify and distinguish between different yoga poses based on image data. This project involves loading the dataset, preprocessing the images, building a classification model, and evaluating its accuracy in recognizing the correct yoga pose from the dataset.

Model:

Screenshots