CS 5330

Pattern Recognition and Computer Vision

Final Project

Team Members:
Member 1: Vishnu Vardhan Kolla
NUID: 002752854
Member 2: Vidya Ganesh
NUID: 002766414

Title: Yoga Pose Estimation

Introduction:

Yoga is a popular exercise regime that focuses on physical, mental, and spiritual well-being. It has been scientifically proven to have several benefits, such as improving flexibility, strength, balance, and reducing stress. This project proposes to develop a pose estimation model that can accurately identify, and track yoga poses in real-time.

Project Objective:

The objective of this project is to develop a deep learning-based pose estimation model that can identify, and track yoga poses in real-time. The model will use a camera to capture the user's image, and the pose estimation algorithm will identify the different parts of the body, such as the arms, legs, torso, etc. The algorithm will then use this information to determine the yoga pose being performed.

Expected Outcome:

The model will be able to help yoga practitioners improve their form. Additionally, the model can be integrated into fitness apps and wearables to provide a more immersive yoga experience.

Conclusion:

In conclusion, this project proposes to develop a pose estimation model that can accurately identify, and track yoga poses in real-time. The model will be developed using a deep learning-based approach and will be implemented using a camera to capture the user's image.