PROJECTS

A GLIMPSE OF PROJECTS BY OUR STUDENTS

AUSTISM DETECTION USING MACHINE LEARNING

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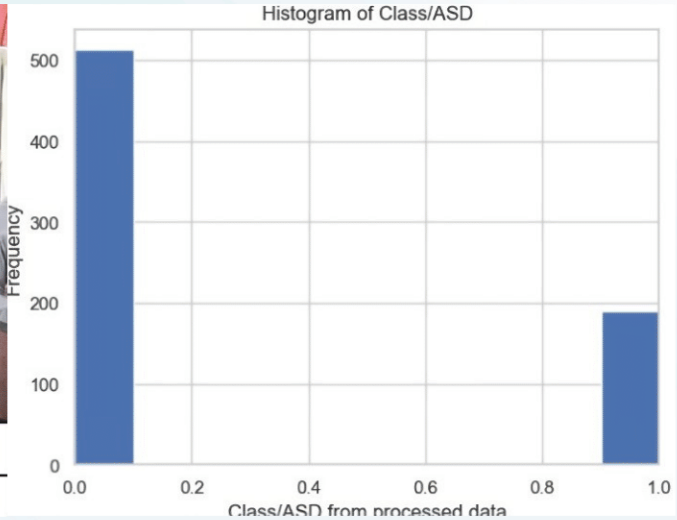

Autistic Spectrum Disorder is a neurodevelopment condition associated with significant healthcare costs, and early diagnosis can significantly reduce these. Unfortunately, waiting times for an ASD diagnosis are lengthy and procedures are not cost effective.

This is a binary classification problem, given some attributes of a person, the model can predict whether the person would have ASD using Supervised machine learning.

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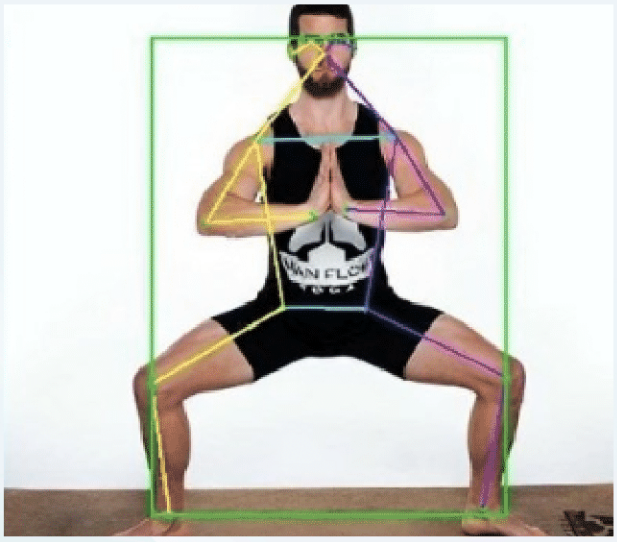
YOGA DELIGHT

A yoga application which detects posture using Deep Learning.
With real-time data captured from camera, a person can get feedback in the application on the accuracy of their pose and keep track of their fitness goal.
This application can be put to use where a Yoga/fitness enthusiast can practice Yoga without the need of an instructor.
The principle reason of the project is to have a user practice Yoga poses accurately and be able to keep a track of daily Yoga routine.



CROP FORECASTING WITH SATELLITE DATA

Better understanding crop yields and how to maximize efficiency of crops is an urgent need.

Used sentinel-2 satellite radar data accessed through Microsoft's Planetary Computer API to build a ml model that predicts rice crop yield for a given geographical location.

Different indices lie RVI, NDVI, NDRE, GNDVI were calculated with the help of the band data from the satellite. Which indicates the crop's health and yield.