Pragada Venkata Abhishek

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EDUCATION

Degree/Certificate	Institute/Board	Percentage/CGPA	Year
B.Tech	IIIT Naya Raipur	81% (Current)	2018-Present
Senior Secondary	BIE, Telangana	98%	2018
Secondary	SSC, Telangana	9.3	2016

PROJECTS

- **Responsible AI for Diagnosis of Health Diseases** *-Ongoing*

  This project tries to reduce the bias in the dataset which consists of 41 commonly occurring diseases and explaining how the classifier model/Black-box gives us the results with the help of various tools.

- **Video Traffic Classification** *-December 2020*

  Collected the data/traffic of various video streaming services like amazon prime, youtube, Netflix, g-meet, Webex, and Dailymotion and prepared a dataset from scratch with various data preprocessing techniques and trained the model on stacking 4 different algorithms (SVM, k-NN, XGBoost, GBDT) in order to give the priority to the network based on whether the network flow belongs to video conferencing, subscription-based or non-subscription category.

- **Skin Leisure Detection** *-May 2020*

  This project examines numerous methods of detecting melanoma and skin lesion cancers based on deep learning. As well as the PH2 dataset, used here is International Epidermis Tomography Partnership 2019 provocation dataset. It uses different CNN prototypes that are based on AI and ML, such as: - using cv2.fastNlMeansDenoisingColored, image data generator, Gray scaling images by using cv2.cvtColor. This experiment has an accuracy of 91%, with the code written in Python.

- **Detecting brain concentration state using CNNs** *-March 2020*

  Used 1-D CNN on EEG Signals to detect and classify the brain state on Alpha, Beta, Gamma brainwaves which helps in detection of drowsiness of a person. Used to reduce road accidents by detecting brain activity of the person driving (precautionary measures would be taken if the person is drowsy).

- **Nutrition monitoring using food colour detection.** *-December 2019*

  Made using OpenCV library and Raspberry Pi. Detects colour of the food using PiCam and estimates the nutrition amount in them for example if yellow is detected it would be taken as Dal and adds the amount of nutrition in it to the daily diet. It helps in keeping a check on Nutrition intake on a day to day basis.

- **Home Automation Using voice control** *-March 2019*

  Developed a home automation device using Aurdino and bluetooth with the code written in JAVA. This device works by voice commands that means, instead of turning on/off a switch we just need to say which device we would like to turn on/off (Fan ON, light OFF..).

TECHNICAL SKILLS

- **Programming languages :** C, Python, Java, R
- **Web Technologies :** HTML, CSS, Javascript
- **Datascience Libraries:** Tensorflow, Pytorch, numpy, pandas
- **Software & Tools** : Matlab, Octave

POSITIONS OF RESPONSIBILITY

E-Cell (Entrepreneurship Club) March'19 - March'20

- Head of Web Development Team
- Organized an event by Head Start

ACHIEVEMENTS

- **Hult prize Regional finals Bangkok, 2020 -** Won Hult prize first round and participated in regionals

INTERNSHIPS

- Online Intern at Megara Robots Pvt. Ltd. on Machine Learning.