**KEERTHI RAJ VASIREDDY YUVARAJ**

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**PROFILE**

Computer Engineering graduate with strong Python, C, Java, C++, and React.js skills. Experienced in hybrid car algorithms, Raspberry Pi ball detection (TensorFlow Lite), and real-time face mask detection (Convolutional Neural Networks). Tech enthusiast and team player.

**EDUCATION**

**Masters In Computer Engineering -**  The University of Texas At Arlington, Texas, USA (GPA – 4.0/4.0) **08/2022 – 05/2024**

**Bachelors In Computer Engineering And Data Science** - Presidency University, India (GPA – 3.96/4.0) **08/2019 – 06/2023**

**SKILLS**

* **Programming Languages:** Python; C; Java; MATLAB; C++
* **Front-End Development:** HTML; CSS; React.js
* **Back-End Development:** Flask; Node.js
* **Databases:** MySQL; SQLite; MongoDB
* **Technologies & Operating Systems:** Linux; Raspberry Pi; OpenCV; Microsoft Office;
* **Software & Cloud:** Microsoft Azure; Google Firebase; Heroku; Github; Anaconda; Visual Studio Code; Android Studio; JetBrains

**EXPERIENCE**

**Student Associate – University of Texas at Arlington,** Arlington, Texas **03/2023 – Present**

* **Skills:** Communication, Organization, Teamwork, Customer Service, Multi-tasking
* Promoted student assistant to student associate. I now support the Admissions team by answering emails, processing admission applications, and managing the admissions procedure for potential graduate students. In the past, I helped with the undergraduate admissions process by answering calls, emails, and chat queries.

**PROJECTS**

**REEV (RANGE EXTENDED ELECTRIC VEHICLE)**, SAEINDIA **03/2021 – 08/2022**

* **Skills:** Matlab – Simulink
* The Projects was based on building a hybrid car, the competition was organized by SAEINDIA.
* Designed an algorithm to be implemented on the microcontroller.
* The algorithm was designed on the controlling and sensing of all the sensors along with automatic hybrid conversion.
* MATLAB – SIMULINK was used to implement the algorithm and extracting the code.

**Robocon 2022**, DD National **02/2022 – 07/2022**

* + - **Skills:** Raspberry pi, TensorFlow Lite, OpenCV, Data Collection and Transformation
    - Ball Detection had to be implemented into raspberry pi for detecting the ball.
    - White ball images were captured with different background images in different angles and multiple translations were applied to for more data generation using the python as a tool.
    - Applied Deep Learning algorithms like CNN and TensorFlow lite for better accuracy and efficiency.
    - OPENCV tracking algorithms like CSRT, KCF, Boosting were more efficient and had better accuracy when compared to DL algorithms due to the low specifications of the Raspberry pi.

**Face Mask Detection,** Presidency University  **07/ 2022 – 07/2022**

* **Skills:** OpenCV, Convolutional Neural Network
* Realtime Detection of mask on the human face was the major motive of this project during the pandemic season.
* Gathered the dataset from the Kaggle website.
* Developed a Convolutional Neural Network from scratch for the model and manipulated the neural network layers based on the dataset size.
* OPENCV was used for the API for detection in real time.

**Personal Projects (GitHub)**

* Chat Application, Car Price Prediction, iPhone Purchase Predictor

**ACTIVITIES & INTEREST**

* Secretary of Hindu Yuva Organization at UTA, Volunteers at Mission Arlington – Distributing Packages for Mission Arlington
* Music, Travelling and Technology Insights