**SAIPUREDDI LOKESH SAI PHANI BABU**

**PROFILE**

A budding software engineer, seeking an entry level position in a dynamic organization, preferably in the field of Data Science, with special interest in areas like Big Data, Machine Learning, Computer Vision and related fields, resulting in meaningful contribution towards organization growth along with personal and professional development.

**EDUCATION**

* **B.Tech.** **Computer Science Engineering**

**CGPA – 8.11 / 10 2019 – 2023**

Amrita School of Engineering,

Amrita Vishwa Vidyapeetham, Coimbatore

* **Class 12** – 100% **[APSB] 2019**

Institution: Sasi Educational Institutes, Velivennu

* **Class 10** – 98%**[APSB]** **2017**

Institution: Sasi Educational Institutes, Velivennu

**TECHNICAL INTERESTS**

* Data Science
* Deep Learning
* Machine Learning

**PROJECTS**

* **Deep Feature based COVID Detection from CT images using SVM**

Duration/Period: Dec 2020- Feb 2021

Objective: Given the COVID-19 CT images we used pseudo coloring image processing method and passed CT images to different CNN Architectures for feature extraction. We extracted Deep Features from Transfer Learning models and pass these features to different machine learning models and made comparative analysis for the detection of COVID-19 from CT Images

Outcome: Published in ICICC Conference

* **Glaucoma Segmentation and detection using hybrid model based on u-net**Duration/Period: Jan 2022 - Present   
  Objective: A project we worked on in collaboration with Aravind Eye Hospital for detection of glaucoma with the help of features which were collected from the segmented images, and the images are segmented by the same u-net model are passed to ml models for the detection of glaucoma. We collected Retina Samples from patients and used an annotation tool to annotate these images. Thereby, Using U-Net incorporated with transfer learning we have extracted deep features frosm the bottom layer.

Outcome**:** PaperPublication

* **Dynamic Mode Decomposition features for detection of COVID-19**

Duration/Period: Feb 2022 - May 2022

Objective: Extracted Features from Dynamic Mode Decomposition Image pre-processing and pass it into a Novel Shallow CNN Architecture, which was able to achieve state-of-art accuracy with minimal complexity (in terms of learning parameters) compared to traditional CNN Architectures for the detection of COVID-19 in CT scans.

Outcome: Paper Publication Wireless sensor network

A sensor network which monitors the health potatoes and show their status on Thingspeak server

**INTERNSHIP**

**Tamil Nādu Agricultural University**

Duration: 4 months

Objective: I have annotated microscopic images of different types of leaves which was helpful in segmenting stomata and epidermal cells. I have used different segmentation models and able to get the count of segmented parts using different image processing techniques which was helpful in achieving stomata to epidermal cells ratio.

Outcome: paper publication

**PROJECTS**

* **Amrita Scholarship**

Area / Topic / Details: Acquired based on AEEE exam rank

When & Where: Exam conducted in the year of 2019

* **ASCII News Letter 4th Edition**Area / Topic / Details: Advancements of Machine Learning in Field of Medicine

When & Where: Sept 2021

**HOBBIES**

* Watching TV
* Exploring New Technology

**LANGUAGES**

* English - Full Professional Proficiency
* Telugu - Native or Bilingual Proficiency