

Akshith Mysa

Electronics and Communication Engineer, K L University Hyderabad

To work in an esteemed organization where my skills and ideas can be effectively utilized so as to dazzle in this field personally and professionally.

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EDUCATION

Under Graduate

K L University, Hyderabad

08/2020 - Present

GPA - 8.0

Course

- Electronics and Communication Engineering

PROJECTS

Classification of P300 EEG signal using Deep Learning
(05/2022 - 07/2022)

- Classified the P300 signal into Hit or No Hit using Convolution Neural Network.

Facial Recognition based on Siamese Neural Network
(08/2022 - 08/2022)

- Build a deep learning model based on Siamese Neural Network for Facial Recognition.

Deep Audio Classification using Neural Network
(10/2022 - 10/2022)

- Build a model which counts number of bird calls in a given audio clip using CNN and LSTM based architectures.

Gesture detection model for Crazyflie 2.1 MAV drone
(06/2023 - 07/2023)

- Developed a gesture detection model for drone control using Mediapipe and LSTM neural network.

Localization of Ornithopter using Ultra-Wide Band Positioning System
(05/2023 - 06/2023)

- Localization of Crazyflie's Flapper drone using Ultra-Wide band for GPS-Denied indoor navigation.

Voiced and Unvoiced Speech classifier (10/2022 - 10/2022)

- Classifies voiced and unvoiced speech signals using Short Term energy and Zero Crossing rate.

Design and Development of Flight Controller (08/2022 - Present)

- Development of basic flight controller at low cost which can be used for real time flight. This device can be used for drones, model rockets, missiles, etc.

WORK EXPERIENCE

Research Intern

NIT Raipur - ECE Department

05/2022 - 07/2022

Achievements/Tasks

- worked on Signal processing of P300 EEG Signal and Brain Computer Interface

Research Intern

TiHAN - IIT Hyderabad

05/2023 - 11/2023

Achievements/Tasks

- I've worked on Ornithopters and GPS denied navigation for Micro Aerial Vehicle.

SKILLS

C/C++

MS SQL Server

Python

Drones

SLAM

Nvidia Jetson

Artificial Intelligence and Machine Learning

Flask Framework

Django Framework

Matlab

Docker

Microcontroller and Microprocessor Development

Team Management

Analytical Skills

ACHIEVEMENTS

Web master at Convoke student committee, ECE dept., KLH
(08/2022 - 05/2023)

Vice Chair at IEEE student branch, KLH (05/2022 - Present)

Presented a Conference paper on Deep Audio Classification using NN for ICIIHS 2022 (11/2022)

Book chapter on "Navigation of Unconventional Drones - Autonomous Ornithopter" for Wiley Publications (under review)
(10/2023)

ORGANIZATIONS

NIT Raipur (05/2022 - 07/2022)

Research Intern at Dept. of ECE, worked on Signal processing of P300 EEG Signal and Brain Computer Interface

NMICPS-TiHAN IIT Hyderabad (05/2023 - 11/2023)

Research Intern at Aerodynamics and Bio-inspired Lab, TiHAN IIT Hyderabad. Worked on ornithopters and GPS denied navigation for MAV drones.

CERTIFICATES

Microsoft Certified: Azure AI Fundamentals (02/2024 - Present)

Pega Certified System Architect (07/2022 - Present)

PCAP: Programming Essentials in Python (06/2021 - 07/2022)

Interpersonal Communication (04/2022 - 04/2022)

LANGUAGES

English

Native or Bilingual Proficiency

Telugu

Native or Bilingual Proficiency

Hindi

Native or Bilingual Proficiency