Adithya TG

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EDUCATION

PES University, 6th Semester, B.Tech. in Computer Science & Engineering | Bangalore, India May 2025
CGPA: 8.53. **Coursework**: Data Structure & Algorithms, Machine Intelligence, Computer Vision, Database Management, Application Development, Software Engineering, Operating Systems, Big Data and Cloud Computing

Allen Career Institute, 11th - 12th grade | Bangalore, India June 2021
CBSE Percentage: 88%. **Coursework**: Sciences, Python and SQL

Deccan International School, 1st - 10th grade | Bangalore, India May 2019
ICSE Percentage: 94.5%. **Coursework**: Sciences and Java

WORK EXPERIENCE

Teaching Assistant - PES University June 2024 - Present
• Helped design the 1st year M.Tech course and prepared assignments for the Topics in Deep Learning course.

Student Intern - CDSAML | Bangalore, India December 2023 - Present
• Developed and executed 2 deep learning projects at PES University's Center for Data Science and Applied Machine Learning which involved processing corrupt video by extracting and fixing the video frame by frame and enhancing vision models for text heavy content understanding and interaction. Working on evaluation of LLMs currently as a part of the centre.

Volunteer - CSR club | Bangalore, India March 2023 - Present
• Planned and executed a charitable event at an orphanage, engaging 50+ students providing guidance.

Software Engineer Intern - Maacsys | Bangalore, India May 2022 - July 2022
• Enhanced facial recognition for an automatic door unlocking system by 7%.
• Developed smart slate and text read-aloud app for ESP32 chip using C programming and Java in 2 projects.
• Implemented Agile methodologies in 2 software development projects, resulting in an increase in project completion ahead of schedule.

PUBLICATIONS

[1] "**Enhancing Vision Models for Text-Heavy Content Understanding and Interaction**", arXiv CV, May 2024

[2] "**Hardware Implementation to detect brain tumour using AI ML based Convolution Neural Networks CNN in the field of bio medical engineering**", Hinweis Second International Conference on Advanced Research in Engineering and Technology (ARET), December 2023

[3] "**Short range motion detector droid**", Grenze International Journal of Engineering & Technology (GIJET), Vol 9, Issue 1, p450, June 2023

[4] "**Human health monitoring system**", Grenze International Journal of Engineering & Technology (GIJET), Vol 9, Issue 1, p476, June 2023

[5] "**3D Hand tracking in virtual environments**", Grenze International Journal of Engineering & Technology (GIJET), Vol 9, Issue 1, p431, June 2023

[6] "**An Optimised Path-Planning Concept for a Micro-Mouse Robot for Autonomous Applications in Terrain Environments**", International Journal of Computer Applications (0975 – 8887) Volume 184– No.26, August 2022

[7] "**Automatic Number Plate Recognition Idea Development using AI based ANNs**", Matjournals Vol. 8, No. 1, July 2022

PROJECTS

Smart Slate | ESP Arduino
• Designed a prototype smart slate tailored for disabled children, having 2 charts; activating buttons initiates audio playback.

Smart door lock | ESP32 cam
• Played a role in crafting the software component for the automated door lock prototype, employing facial recognition technology.

Scanned Text Reader App | Java
• Engineered a read aloud application empowering the visually impaired to access scanned text 1 by 1 on their mobile devices.

College 11th floor Architecture development with Interactive AI chatbot | Unity 3D, Blender, C#
• Spearheaded the creation of the 11th floor of PES college building, housing an AI tutor to processing speech, translating queries, and delivering verbal responses on a variety of topics.

Yet Another Distributed File System | Operating Systems, Python
• Orchestrated the implementation of a distributed file system, facilitating seamless 7 directory and file operations via a Python client interface, operational within Linux Ubuntu environments.

ACHIEVEMENTS

• Recipient of **CNR** award and scholarship given for excellent academic performance at PES University
• Recipient of **Distinction Award Certificate** and scholarship 5 times at PES University
• Participated in **Hashcode 12.0** hackathon
• Won 1 neckband prize and participated in **Embrione 2.0** hackathon
• School House **Captain** winner 2019

SKILLS: Flutter, C, C++, R, JavaScript, Java, Python, Hadoop, React, MongoDB, SQL, Angular, Node, AWS, Unity3D, OpenGL, Blender