A. Shri Karthik

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EDUCATION

PES University   Bangalore, India
Bachelor of Technology in Computer Science and Engineering   *Aug 2023 – Aug 2027*
GPA: 9.04/10.00. Courses: Data Algorithms and Analysis, Linear Algebra, Computer Networks, etc.
Awards: Prof. CNR Rao Scholarship (top 20%) x 3

SKILLS

Programming Languages: Python (proficient), C/C++ (intermediate), JavaScript (proficient).
Machine Learning: Keras, TensorFlow, pandas, NumPy, scikit-learn, Hugging Face, etc.
Full-Stack Development: React, Express, MongoDB, Flask.
Cloud: Vercel, Firebase.
Tools & Platforms: Git, Linux, Android Studio, Figma, Canva.
Other: Data Structures & Algorithms, Problem-Solving.

RESEARCH/PROJECTS

Cal Pal – Collaborative Task Management App *(React, Express, MongoDB, NodeJS (MERN))*
- Developed a productivity app with RESTful APIs to manage tasks efficiently.
- Integrated a gamified 'grow points' system for task completion, and groups for linking with like-minded people.
- Hosted on Vercel with a seamless front-end experience.

Saywell – Dyslexia-Friendly Reading Assistant *(Flask, React, Firebase, HTML, CSS)*
- Built an accessibility-driven web app to aid individuals with dyslexia in reading and understanding content.
- Implemented text-to-speech features, personalized and adaptive AI chatbot, document scanners, customizable UI, etc. to give a seamless and multi-modal interface to enhance ease of use.
- Used Firebase for user authentication and content storage, with a Flask backend handling dynamic content rendering.

P2P TCP Chat Application *(JavaScript, ElectronJS, NodeJS, Networking)*
- Built a real-time chat application using TCP sockets and UDP discovery to find other users.
- built to be peer to peer which makes it self-scalable, allows users to seamlessly chat with people on the same network.
- Implemented multi-client support with an intuitive user interface.

Mood Light Project *(Embedded Systems, IoT)*
- Developed a smart lighting system that changes colors and intensity based on the environment, including music, ambient light.
- Integrated microcontrollers and sensors to create an adaptive lighting environment.

Hand Gesture Prediction Model *(Machine Learning, Python, TensorFlow)*
- Developed a machine learning model to recognize and predict hand gestures (Numbers and alphabets) when analyzing images
- Utilized open-source datasets on Kaggle and TensorFlow for model training.

Farmer-to-Customer Marketplace App *(Prototype) (Flutter, Firebase)*
- Collaborated with a team of 4 to develop an Android app connecting farmers directly with customers.
- Designed an intuitive UI for ease of use and presented it in front of Selection Management for All India Hackathon.

EXPERIENCE/CERTIFICATIONS

Poster Designer for Major Tech Workshops

- Designed posters and videos for major tech workshops regarding AWS and Ethereum Smart Contracts.

HackerRank

- 5 stars in python and C++, also participated in multiple hackathons to build experience in time constrained problem solving.

Completed Machine Learning Course I/O course through university.