

A. Shri Karthik

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EDUCATION

PES University

Bachelor of Technology in Computer Science and Engineering

GPA: 9.03/10.00. Courses: Data Algorithms and Analysis, Linear Algebra, Big Data, etc.

Awards: Prof. CNR Rao Scholarship (top 20%) x 4

Bangalore, India

Aug 2023 – Aug 2027

SKILLS

Programming Languages: Python (proficient), C/C++ (intermediate), JavaScript (proficient).

Machine Learning: Pytorch, Keras, TensorFlow, pandas, NumPy, scikit-learn, Hugging Face, etc.

Full-Stack Development: React, Express, MongoDB, Flask, FastAPI.

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 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.

LeetCode Analytics Platform (*React, Supabase, PostgreSQL, Python*)

- Developed a full-stack analytics platform for university-wide use, enabling multiple students to track and compare LeetCode performance through automated data sync and dynamic leaderboards.
- Followed Agile (SCRUM) workflows using Jira and ensured system reliability through thorough unit, integration, and performance testing.

Loopy – Audio Stem Transformer (*Pytorch, FastAPI, React*)

- Web-application to create background music for studying and events to suit user preferences.
- Built a web-application that takes song audio as input and removes the vocals from the song and loops the selected portion to the required length.

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.

Technical Team Member at IEEE PESU-ECC Student Branch

Completed Machine Learning Course I/O course through university.