Viishhnu Rangaraju

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Education

Keshav Memorial Institute of Technology   **2022 – 2026**
B.Tech in Computer Science   *CGPA: 9.45*

Sri Chaitanya Junior College   **2020 – 2022**
Board of Intermediate Education, Telangana – MPC   *Percentage: 97%*

Ravindra Bharati School   **2017 – 2020**
Board of Secondary Education, Telangana – SSC   *CGPA: 9.8*

Technical Skills

Programming Languages: Java(Object-Oriented Programming), C++, Python, JavaScript, Dart

Cloud & Infrastructure: AWS(EC2,S3) , Docker , Firebase

Frameworks & Tools: React.js , FLutter, Node.js, Express.js, Flask, REST APIs, Git

Database Systems: MongoDB, MySQL , Firestore database

Computer Science Fundamentals: Data Structures, Algorithms, Computer Networks , Operating System , DBMS

Projects

GenAI Remote Sensing Mobile Application   **Sept 2024 – Dec 2024**
SAR Image Colorization and Flood Detection   *[View Project](#) — [Website Demo](#) — [App Demo](#)*

- **Tech Stack:** Flutter, Flask, JavaScript (React.js), Node.js, Docker, AWS EC2
- Developed a mobile application using Generative AI techniques for colorizing synthetic aperture radar (SAR) images.
- Implemented flood area detection and mapped SAR crop images to ground crop images.
- Led the user experience design for a mobile application, focusing on intuitive visualization of complex SAR imagery

Network-Enabled Visual Aid System   **March 2024 – Aug 2024**
Visual Aid for Visually Impaired   *[GitHub](#) — [App Demo](#)*

- **Tech Stack:** Flutter, Flask , Firebase
- Developed an innovative assistive technology solution to help visually impaired individuals navigate their environment independently.
- Utilized VLM pre-trained models to convert images or videos to descriptive text.
- Designed an accessible interface for visually impaired users, emphasizing voice-based interactions

Jobby App(Hacakthon Winning Website)   **Aug 2024**
One stop Job Search Platform   *[GitHub](#) — [Website](#)*

- **Tech Stack:** JavaScript (React.js), Node.js, MongoDB
- Created a comprehensive job search platform connecting job seekers with potential employers through an intuitive interface.
- Implemented secure backend logic using Express.js and MongoDB for user profile management, job search, and recommendations.
- Improved data security with JWT-based authentication

Certifications

Google Cloud Computing Foundations and Generative AI: Comprehensive understanding of cloud computing and generative AI technologies. [Certificate link](#)

Generative AI MEGA WORKSHOP: In-depth workshop covering the fundamentals and applications of generative AI. [Certificate link](#)

Achievements

Won Third Prize at Smart MECS Hackathon: Developed a web application that connects job seekers with employment opportunities, training programs, and resources.

Campus Ambassador at IIT Bombay's E-Cell: Represented my college as a Campus Ambassador for the E-Cell at IIT Bombay, in association with Physics Wallah.

Top Student from Convener Quota in EAMCET-2022: Achieved a state rank of **1432** in **EAMCET-2022**, securing admission to Keshav Memorial Institute of Technology as a top performer from the Convener quota.