Advaita Amrit

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EDUCATION

Siddaganga Institute of Technology   Tumakuru, Karnataka
Bachelor of Engineering in Information Science and Engineering   *Sept 2023 – July 2027*

Sacred Heart School   Sitamarhi, Bihar
Higher Secondary Certificate   *July 2021 – May 2023*

Podar International School   Chhatrapati Sambhaji Nagar, Maharashtra
Secondary School Certificate, ICSE   *April 2016 – July 2021*

PROJECTS

Vision-Controlled Wheelchair | *Python, OpenCV, Dlib, Arduino, ML*   Oct 2024 – Dec 2024
- Developed a **hands-free wheelchair** using **eye-tracking**, achieving **92% gaze accuracy** and reducing control latency by **40%**.
- Improved accessibility for users with mobility impairments through real-time facial landmark tracking.

Speech to Indian Sign Language Converter | *Python, SpeechRecognition, OpenCV*   May 2025
- Built a **real-time voice-to-sign translator** using GIF-based ISL gestures and **Google Speech API** with **95% accuracy**.
- Enabled communication for hearing-impaired users via **150+ predefined phrases** and alphabet fallback.

CORSIT Club App | *Flutter, Dart*   Aug 2025 – Present
- Developed and maintained the **official mobile app for CORSIT**, used by **150+ users** and **50+ members** for events and project management.
- Built distinct interfaces for public and members, improving internal communication efficiency by **70%**.
- Implemented modular updates enabling **bi-weekly feature releases** and streamlined user management.

SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Dart
IT Constructs: Data Structures and Algorithms(Beginner), OOPS, DBMS, Data Communication
Libraries: OpenCV, NumPy, Dlib, pySerial, NLTK
Area Of Interest : Full Stack Development, Flutter Developer
Design Tools : Adobe Photoshop, Canva, DaVinci Resolve, Wondershare Filmora
Soft Skills : Event Coordination, Technical Mentorship, Cross-Functional Communication, Public Speaking

CERTIFICATES AND ACHIEVEMENTS

Certified in C++ Programming Fundamentals (Learn Programming using C++)

Winner LFR competition at IdEEEas 2024

CLUB AND ACTIVITIES

Member, Club of Robotics SIT (CORSIT) | *Official Robotics Club of SIT*   Dec 2023 – Present
- Contributed to the national-level competition **ROBOCOR**('24 & '25) and the **Robotics Workshop** ('24 & '25), advancing from volunteer to event organizer and technical mentor.
- Demonstrated a Vision-Controlled Bot at RoboExpo 2024 and a Line Follower Robot (LFR) at the National Technology Day event.

Member, Team Avalanche | *Event Management Club*   Nov 2023 – Present
- Organized and served as an anchor at **Radiance** (a cultural event) and **Advento** (a freshers' event.)

Events
- Participated in national-level hackathons including **Hack-Z 2024** (12-hour hackathon by Team IEEE Photonics and ComSoc Joint Chapter), **Symbiot** (24-hour hackathon by Dept. of ECE, VVCE, Mysuru) and **CodeFury-8.0**(National-Level hackathon by IEEE UVCE Computer Society).
- Actively participated in robotics events such as **Technisium** and **IdEEEas**
- Engaged in multiple coding competitions at fests like **IdEEEas**, **Browse**, **Decode**, and **Bug Bounty**.