



SAGAR SUBHAS SHEGUNASHI

🌐 **Portfolio:** sagarss2664.github.io

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EDUCATION

KLE Technological University Hubli <i>B.E- Computer Science and Engineering CGPA - 8.81</i>	2022 – 2026 <i>Hubli, India</i>
SRA COMP PU College, Banahatti <i>Pre-University - Percentage - 96.00%</i>	2022 <i>Bagalkot, India</i>
SRA High School, Banahatti <i>SSLC - Percentage - 93.12%</i>	2020 <i>Bagalkot, India</i>

TECHNICAL SKILLS

Programming: C/C++, Python

Web Development: React.js, HTML, CSS, JavaScript, Node.js, Express.js

Databases: MySQL, MongoDB

DevOps & Cloud: Git, GitHub, GCP, Render, Vercel

PROJECTS

- 1. Grapho Genius – Handwriting-Based Thinking Style Recognition Tool** [Website]
 - Designed and trained a **CNN model (VGGNet)** to classify thinking styles (Cumulative, Analytical, Investigative, Comprehensive) using handwriting samples and Bloom's Taxonomy-based questionnaire.
 - Achieved **92.89% training accuracy** and **87.27% testing accuracy** on handwriting data extracted with the **Google Cloud Vision API (OCR)**.
 - Built a production-ready **web application** with React.js (frontend) and Flask (backend), deployed on Google Cloud.
 - Released in August 2025 as **Grapho Genius**, a professional tool adopted by graphologists, psychiatrists, and hiring managers for behavioral and cognitive style assessment; publicly accessible at **Grapho Genius Website**.
- 2. Apartment Management System (Web + Mobile App)** [GitHub]
 - Built a full-stack apartment management platform using React, Node.js, Express, MongoDB, and React Native.
 - Features include maintenance billing, vehicle search, and visitor/employee management.
 - Backend hosted on **Render** with an integrated mail system for invoice and reminder emails.
 - Actively used in production by **Akshya Garden Apartment**, **Hubli** residents since Jan 2025; commercialized via startup **ApartmentPro**.
- 3. Real-Time Sign Language Gesture Recognition with Facial Expression Integration** [GitHub]
 - Developed a real-time system using CNN-LSTM (MobileNetV2) for sign gestures and DeepFace for facial emotion detection.
 - Achieved 92% accuracy on Small WLASL dataset; designed to assist the deaf and hard-of-hearing.
 - Tech Stack: Python, TensorFlow, Keras, OpenCV, DeepFace.
 - Accepted and published in CRM 2025 Proceedings (Vol. 2), SR University, Warangal. [Certificate]

ACHIEVEMENTS

- **Ingenium 2025 (Quest Global)** – Selected for idea submission round for the proposal **“Finding the Criminal by his Gait Feature Analysis.”** [Demo Video]
- **Best Paper Award – CRM 2025:** Awarded Best Paper in the Robotics category for the paper titled **“Real-Time Sign Language Gesture Recognition with Facial Expression Integration.”** [Certificate]
- **Seva Prerak Award – Youth for Seva** – Completed **300+ hours** of volunteering, including painting government schools and teaching students for the NMMS exam. [Certificate]

EXTRACURRICULAR ACTIVITIES

- Volunteered with **Youth For Seva Organization**, leading school painting and cleaning initiatives.
- Conducted **NMMS training** for government school students in rural communities.