



# SAGAR SUBHAS SHEGUNASHI

🌐 Portfolio: [sagarss2664.github.io](https://sagarss2664.github.io)

/github.com/Sagarss2664

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## EDUCATION

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