

# Sagar Swami Rao Kulkarni

[sagarswamirao@gmail.com](mailto:sagarswamirao@gmail.com) | +1(303) 434 7446  
[sagarswamirao.github.io](https://sagarswamirao.github.io) | [linkedin.com/in/sagarswamirao](https://linkedin.com/in/sagarswamirao)

## Education

MS in Computer Science | University of Colorado, Boulder, CO, USA: GPA:4/4 May 2025

**Relevant Courses:** Object Oriented Analysis & Design, Computer Vision, Natural Language Processing

BTech in Computer Science and Engineering | CMR University, IN: GPA: 9.41/10 (Gold Medalist) Aug 2020

**Relevant Courses:** Operating Systems, Programming with Java, Python and Cloud Computing

## Technical Skills

**Programming Languages:** Java, Python, JavaScript

**Web Technologies:** HTML, CSS, React.js, Three.js, Popoto.js, Flask, Spring

**Databases:** MySQL, Neo4J, Redis

**Tools & Frameworks:** Docker, Git, Jupyter, PyTorch, Scikit-Learn, Postman, Tomcat

## Experience

AI Full-Stack Developer | [Quinnox](#) | Bengaluru, IN Jan 2021 – Jul 2023

- Developed and optimized an Enterprise Resource Graph and AR-VR landscape using React, Popoto.js, and Three.js.
- Reduced REST API compute time by 80% through smart caching mechanisms.
- Utilized Agile methodology for project management and automated data injection from Excel to Neo4J.
- Led the full-stack development of a Home Healthcare Orders application using React, Java, and Python. Implemented Python scripts to decrease data injection time by 62.5%.
- Built an automatic payment status tracker service and implemented Redis NoSQL Bulk Data Upload Trigger using AWS Lambda, enhancing data upload speed by 50%.
- Received the 2022 On-the-Spot Award for developing an object detection POC leveraging computer vision to monitor warehouse stations. Achieved a 76% detection accuracy and implemented parallel processing to decrease model training time from 2 hours to 32 minutes per epoch.

Full-Stack Software Intern | [Senseforth AI](#) | Bengaluru, IN Mar 2020 – May 2020

- Initiated research on scalable parsers for PDFs, PPTs, and Word documents, employing NLP techniques.
- Enhanced document parsing capabilities by implementing Lucene indexing, Bird's Eye Search, and word spaces calculations. Furthermore, tweaked the PDFBox's open-source code to fetch fonts, indentations and distances in PDFs.

## Projects

Career Compass Sept 2023 – Present

- Developing Career Compass, a web application to help job seekers manage their job search process effectively by tracking applications, deadlines, and communication.
- Implementing features such as personalized job search tags, company tracking, application status monitoring, and information storage for each application, utilizing React for the frontend, Java Spring for the backend, and a MySQL database.

Phone Like-Dislike Classification Jan 2020 – Aug 2020

- Developed and implemented MP Neuron and Perceptron models to predict market acceptance of phones based on specifications, leveraging real data from GSM Arena; achieved an accuracy rate of 82% in classifying phones into like-dislike preferences. Documented and published an [IEEE paper](#) on the same.

## Key Achievements

- Received the 2022 **On the Spot Award** and the 2021 **Pat on the Back Award** for outstanding performance & contributions.
- Awarded the **Gold Medal** for securing first place throughout my Bachelors in Computer Science and Engineering.
- Won the **Zonal Level** title in the Azure Skynet Hackathon, organized in collaboration with IIT Hyderabad in 2018.

## Volunteering & Leadership Experience

- Led initiatives with **Voice of Stray Dogs** to improve animal welfare and promote responsible pet ownership.
- Drove impactful projects at **Make A Difference** to empower underprivileged youth through education and mentorship.
- Championed environmental sustainability as part of the INGLU Climate Warriors team, driving awareness and action for a greener future.