

Harikrishnan Gopal

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Summary

I am a highly motivated engineering student with a strong foundation in Software development, Machine Learning, and Data Science. With hands-on experience in delivering impactful projects and collaborating in diverse, fast-paced teams, I am passionate about leveraging technology to solve real-world challenges.

Education


K J Somaiya School of Engineering 2022 – 2026
Bachelor of Technology in Computer Engineering
◦ GPA: 9.26/10


Experience


Summer Intern Mumbai
CDSL - Central Depository Services (India) Limited May 2025 – July 2025
◦ Developed a microservices-based software to analyze investor grievance and helpdesk data, incorporating transformer models for data classification
◦ Built a RAG-based pipeline using local LLMs, designed for reusability across departments (risk assessment, grievance redressal, backoffice software)
◦ Contributed to the full project lifecycle, including requirement analysis, development, testing, and deployment

Software Engineer Intern Mumbai
Software Development Centre (KJSCE-SDC) May 2024 – Dec 2024
◦ Developed two MERN stack web applications to streamline faculty management: one for faculty appointments (examiner assignments, paper setting, evaluations) and another for faculty reimbursements (submission/approval workflows)
◦ Focused on seamless integration, high performance, and a responsive, user-friendly experience to optimize operational efficiency
◦ Delivered solutions that improved workflow efficiency and enhanced user experience across both applications

Projects

FinCredible [FinCredible](#) 
◦ A comprehensive finance platform aggregating personalized financial news, supporting stock portfolio management, providing machine learning-driven stock recommendations, and offering real-time market analysis
◦ Technologies: React.js, Node.js, Express.js, MongoDB, Machine Learning

SafeView - Automated Social Media Content Moderation [SafeView](#) 
◦ Developed a real-time browser extension for automated NSFW content moderation, leveraging a fine-tuned CNN model trained on the LSPD dataset
◦ Integrated TensorFlow.js for client-side content classification and filtering, ensuring privacy by processing content locally in the browser
◦ Technologies: TensorFlow.js, JavaScript, CNN, Machine Learning

Code-Sync [CodeSync](#) 
◦ Developed a real-time collaborative code editor allowing multiple users to edit code simultaneously, share files, and communicate via integrated chat
◦ Features include unique room generation, syntax highlighting, auto-suggestions, and code execution
◦ Technologies: React.js, Node.js, Firebase, Socket.IO, Tailwind CSS

UniqScan

[UniqScan](#) 

- A full-stack plagiarism detection tool that utilizes NLP and OCR for document processing
- Uses a RoBERTa-based model to detect plagiarized and AI-generated content, with a virtual classroom setup to ensure academic integrity
- Technologies: React.js, Node.js, Express.js, MongoDB, NLP, OCR, RoBERTa

QuickNote - Chrome Extension

[QuickNote](#) 

- Developed a lightweight Chrome extension for quick note-taking with features like local storage saving, file export/import, and a minimalist user interface
- Technologies: HTML, CSS, JavaScript, Chrome Extensions API

Skills

Programming Languages: Java, Python, C

Web Development: Flask, MERN Stack, FastAPI, REST API, HTML, CSS, JavaScript

Databases: MySQL, PostgreSQL, NoSQL (MongoDB)

Machine Learning: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib, OpenCV, PyTorch

Artificial Intelligence: Hugging Face Transformers, LangChain

Tools & Technologies: Git, Jupyter, Docker, Google Cloud Platform, Amazon AWS, Microsoft Azure

Key Achievements

Datathon (Data Science Hackathon)

[Github](#)

- Finalist in Datathon by DataZen, KJSCE.
- Developed a machine learning-based system to predict customer churn in subscription-based services, leveraging predictive analytics to identify high-risk customers and recommend targeted retention strategies

IIT Kharagpur Data Science Hackathon

[Github](#)

- Semi Finalist in IIT Kharagpur Data Science Hackathon
- Developed an AI-driven system to classify research papers for publishability and recommend suitable conferences. Integrated DocBERT for advanced textual analysis and XML-CNN for multi-label classification. The system leverages real-time data streaming and Pathway Framework for dynamic data processing

Certifications

Google Project Management Professional Certificate

[Google](#) — [link](#)

Architecting Solutions on AWS

[AWS](#) — [link](#)

Database Structures and Management with MySQL

[Meta](#) — [link](#)

Python for Data Science, AI & Development

[IBM](#) — [link](#)

Google Cybersecurity Specialization

[Google](#) — [link](#)