

Harikrishnan Gopal



CONTACT DETAILS

Email ID:

harikrishnan.g@somaiya.edu
harikrishnangopal0411@gmail.com

Mobile:

9372296398

Address:

A-8/404, Shankeshwar Nagar,
Dombivli, Thane, Maharashtra,
421204.



PERSONAL INFORMATION

Date of birth: 04-Nov-2004

Gender: Male

Father's Name: Gopal

Languages Known:

English, Hindi, Marathi, & Tamil.

Hobbies: Chess, Reading.

Linkedin: <https://www.linkedin.com/in/harikrishnangopal/>

Github: <https://github.com/hk151109>

Portfolio: <https://harikrishnan.tech>

PROFILE SUMMARY

I am a B.Tech Computer Engineering student specializing in data science and machine learning, with a portfolio of projects, internships, and hackathon experience. I work comfortably with cloud platforms and modern web development stacks, allowing me to design and deploy complete, end-to-end solutions.

EDUCATION

- B.Tech in Computer Engineering from K J Somaiya School of Engineering - CGPA 9.26 (2026)
- HSC, Ratanbai Walbai Junior College - 83% (2022)
- 10th Class (CBSE), Holy Angels' School — 96.6 (2020)

TECHNICAL SKILLS

- Programming Languages: Python, R, Java, C
- Data Visualization: Matplotlib, Seaborn, Plotly, Tableau, Power BI
- Data Analysis & Machine Learning: NumPy, Pandas, Scikit-learn, StatsModels, TensorFlow, Keras, PyTorch, OpenCV
- Artificial Intelligence: Hugging Face Transformers, LangChain, NLTK
- Web Development & APIs: MERN Stack, Flask, FastAPI, REST API, HTML, CSS, JavaScript
- Databases & Querying: MySQL, PostgreSQL, SQL, NoSQL (MongoDB)
- Big Data & Cloud Platforms: Apache Spark, Microsoft Azure, Amazon AWS, Google Cloud Platform
- Tools & Technologies: Git, Jupyter Notebook, Docker

ADDITIONAL SKILLS

- MS Office
- Figma
- Canva
- PlantUML
- Draw.io
- Notion

OTHER DETAILS

Internship:

AI/ML Intern

CDSL- Central Depository Services (India) Limited

May – July 2025

- Built an Azure-hosted micro-services pipeline that ingests and cleans investor-grievance & help-desk records, standardising 40+ text fields with Python/SQL for downstream modelling.
- Fine-tuned BERT, RoBERTa, and Sentence-Transformers classifiers to auto-tag complaint category and escalation probability, with F1-score of 0.87 and accelerating response SLA.
- Risk-Score Model: merged four years of complaint frequency and turnaround metrics to predict a risk score for every DP/broker, powered by a matplotlib dashboard used by compliance teams for early-warning alerts.
- Collaborated with Risk, Grievance Redressal, and Back-Office teams to gather requirements, present insights, and iterate on ML solutions, strengthening cross-functional communication skills.

Software Engineering Intern

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.

Projects:

FinCredible –

[Github](#)

- Designed an ETL pipeline to integrate real-time market ticks and 10K+ daily news articles into MongoDB, powering user-specific feeds and portfolio analytics.
- Built gradient-boosted & LSTM predictive models that improved 1-day return-prediction, serving recommendations through a FastAPI micro-service.
- Visualized risk metrics and price-impact signals with Plotly dashboards, and deployed the solution on GCP for seamless scalability and faster investor action.

StockSage –

[Github](#)

- Built a Flask micro-service that streams live OHLC data from Alpha Vantage, feeds it to an LSTM (TensorFlow/Keras), and serves rolling price forecasts via REST API.
- Visualized actual vs predicted prices and confidence bands with Matplotlib on a responsive dark-theme UI, giving traders an at-a-glance decision aid.
- Deployed model via REST API using FastAPI/Flask, containerized with Docker and hosted on Azure for real-time inference.

Portfolio Website –

[Github](#) | [Live Site](#)

- Built a fully responsive personal portfolio using Next.js, Tailwind CSS, and Framer Motion, featuring sections for projects, experience, and smooth UI transitions.
- Deployed on Google App Engine with a structured, scalable component design and custom domain.
- Configured CI/CD pipeline with GitHub + GCP Cloud Build using cloudbuild.yaml for automated, zero-downtime deployments.



UniqScan -

[Github](#)

- Developed a full-stack web platform (FastAPI + MERN) that extracts text with NLTK and OCR, encodes it using a fine-tuned RoBERTa model, and flags plagiarised or LLM-generated content with 93% F1-score, maintaining plagiarism records in a structured MySQL table.
- Provided a virtual-classroom dashboard and on-demand visualization reports using Matplotlib, enabling educators to review submissions and uphold academic integrity.

SafeView -

[Github](#)

- Designed the full pipeline by collecting 500k labelled images, automating data-cleaning & augmentation in Python and fine-tuned a MobileNet-V3 CNN on NVIDIA A100 GPUs, boosting F1-score from 86 % (base) to 92 %.
- Engineered a JavaScript-based real-time chrome extension to stream and process video frames, classifying NSFW content with <50ms latency. Integrated asynchronous buffering for auto-blur flagged content, enforce whitelisting, and prevent visibility of NSFW frames.

Certifications:

Google Project Management Professional Certificate
Architecting Solutions on AWS
Database Structures and Management with MySQL
Python for Data Science, AI & Development

[Google](#)
[AWS](#)
[Meta](#)
[IBM](#)

Positions & Responsibility Undertaken in KJSCE:

Tech Team Member – Emfinity (KJSCE Math Club)	Jan 2023 – May 2024
Audio Head – KJSCE Yugandhar (College Theatre Club)	Jan 2023 – May 2024
Tech Head – KJSCE SAHAS (Student Association of Humanities & Science)	Dec 2022 – May 2023

Interests / Extracurricular Activities:

National Service Scheme Volunteer **Sep 2023 - Present**
Contributed to blood-donation and voter-awareness camps as part of the NSS.

Scientific Volunteer, at Institute for Plasma Research (IPR) **Feb 2023**
Explained plasma-science models to visitors and led interactive public-engagement sessions
In the “4th State: Plasma” Exhibition of IPR.

Key Achievements:

Datathon (Data Science Hackathon) - Finalist

[Github](#)

- 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 - Semi Finalist

[Github](#)

- Built an AI pipeline that evaluates manuscript “publishability” and suggests ideal conferences by combining DocBERT embeddings with an XML-CNN multi-label classifier.
- Engineered a real-time streaming workflow to ingest new papers, perform on-the-fly scoring, and deliver recommendations within seconds.