CHARUVI SURESH

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AI/ML ENGINEERING | COMPUTER VISION | GENERATIVE AI

SUMMARY

Final-year Computer Science undergraduate at BMS Institute of Technology & Management, aspiring to build a career in AI/ML and software engineering. Curious, adaptable, and driven by problem-solving, with a passion for learning, building, and creating meaningful real-world solutions.

EDUCATION

BMS Institute of Technology & Management, Bengaluru **2023 – 2027**

B.E. Computer Science & Engineering | Machine Learning, Data Structures & Algorithms, DBMS, Operating Systems

TECHNICAL SKILLS

Category	Skills
AI / Machine Learning	Python, PyTorch, scikit-learn, Deep Learning, Computer Vision, OpenCV, Object Detection, CNNs, Image Classification, Data Augmentation, Feature Engineering, Model Evaluation
Generative AI	LLMs, RAG, Prompt Engineering, Gemini API, Claude API, OpenAI API, Vector Databases
Programming	Python, C++, C, Java, JavaScript, SQL
Software Engineering	REST APIs, Firebase, Firestore, Cloud Functions, Streamlit, MySQL
Tools	Git/GitHub, Docker, Linux, CI/CD

EXPERIENCE

AI Intern – Bharat Electronics Limited (BEL) **2026 – Present** | GitHub

Python · OpenCV · Deep Learning · Object Detection

- Developing a real-time **maritime situational-awareness system** using **computer vision** to detect and classify ships from camera and video feeds.
- Training and evaluating **deep-learning object-detection models** on annotated maritime imagery; deploying inference on video streams for real-time vessel identification.
- Integrating weather conditions and daily forecast data with visual vessel detection into a unified maritime monitoring interface.

PROJECT EXPERIENCE

Sportify – Sports Career Prediction System **Jan 2025 – Jun 2025** | GitHub

- Built a **CNN image classifier** in **PyTorch** that analyzes athlete performance imagery to recommend career paths.
- Applied exploratory data analysis, **data augmentation**, and **feature engineering**, and designed the feature-extraction pipeline to train and evaluate the model.

Ordinex (RegAI) – AI Regulatory Compliance Platform **Jul 2025 – Present** | GitHub

- Built a full-stack web platform that benchmarks privacy policies and T&Cs against GDPR and country-specific regulations, using **Firebase** (Hosting, Firestore, Cloud Functions).
- Implemented a **RAG** pipeline with **LLMs** (**Gemini API**) over a multi-jurisdiction regulatory corpus to surface compliance gaps, score risk severity, and generate remediation suggestions with clause-level citations.

SecTriage – Automated Security Vulnerability Triage **Jan 2026 – Apr 2026** | GitHub

- Built a **Python** CLI that combines **Nmap** and **OWASP ZAP** scan output with static source review, normalizing and deduplicating the findings into one common schema.
- Used the **Claude API** for structured analysis that classifies each finding under OWASP Top 10, assesses exploitability and impact, and generates remediation steps, with prioritized HTML/PDF and JSON reports.

Rubrics Management System **Jan 2025** | GitHub

- Built a **Streamlit** rubric-based evaluation platform with dynamic scoring weights and role-based access, backed by a normalized **SQL** schema and **REST APIs**, replacing a spreadsheet grading workflow with consistent, auditable records.

Recipe Finder **Aug 2025** | GitHub

- Built a responsive ingredient-to-recipe web app in HTML5, CSS3, and **JavaScript** using third-party **REST APIs**, YouTube walkthroughs, and local vendor links, with caching and debounced search to reduce redundant API calls.

Epoch 2024 2-Day Hackathon – 2nd Place among 50 teams **2024** | GitHub

- Developed a web-based post-release monitoring platform aimed at helping prevent repeat offences by enabling authorized organizations to monitor ex-convict activity through social media and CCTV networks, with the platform designed for use by police, private investigators, and other organizations.

CERTIFICATIONS

Certification	Issuer / Date
SAP Certified – Backend Developer, SAP Cloud Application Programming Model	SAP, May 2026
AWS Solutions Architect Associate – Hands-On Training Course (48.5 hrs)	Udemy, May 2026
Overview of Agile & DevOps	Infosys Springboard, Nov 2025