

HARSITA MAV

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SUMMARY

Product-driven software engineer with hands-on experience in delivering scalable AI and fullstack solutions across fraud detection, OCR, and automated support systems. Led cross-functional efforts to deploy machine learning models, optimize backend processes, and integrate LLMs into production environments. Improved business outcomes through efficient systems that reduced manual effort, boosted accuracy, and accelerated product timelines. Focused about business transformation and innovation through technology.

EDUCATION

Masters of Computer Science, Syracuse University, New York, August 2025 – May 2027
Bachelors of Technology: Information Technology, University of Mumbai, Mumbai, India, May 2022
GPA: 9.19/10.0

SKILLS & TOOLS

Languages: HTML, CSS, JavaScript, C++, Python, Java, SQL, NoSQL
Full-Stack & Backend: React.js, Next.js, Django, Flask, FastAPI, Node.js, RESTful APIs, GraphQL, WebSockets
ML & AI: Keras, Tensorflow, Scikit-Learn, NLTK, OpenCV, PyTorch, DALL-E, OpenAI GPT, OCR, LangChain
Databases: MySQL, PostgreSQL, MongoDB, Azure
DevOps & Platforms: VS Code, Jupyter Notebook, Docker, Git, Postman, Airflow, Kubernetes, CI/CD (Github)
Product Skills: System Design, Product Definition and Validation, Requirement Analysis, Product Strategy, Product Planning and Development, Cross-Functional Team Leadership, Documentation (Swagger), Business Strategy.

WORK EXPERIENCE

Machine Learning Engineer, Metamorphosys Technologies, Mumbai, India: August 2022 – April 2024

- Established and led the Data Science team, developing an AutoML Framework that cut model development time by 80%, accelerating product deployment and revenue growth.
- Partnered with business stakeholders to build and deploy fraud detection models (**85% accuracy**), reducing client losses.
- Delivered a 95%-accurate OCR system, boosting **customer acquisition by 40%** and **increasing revenue by 30%** by standardizing AI modules.
- Integrated generative AI and LLMs into workflows, aligning with production-level backend services and leveraging AWS architecture components, cutting project time by 7 days and **boosting efficiency by 25%**.

Research Assistant, K.J. Somaiya Institute of Engineering and Information Technology, Mumbai, India: October 2021 – May 2022

- Developed ML based Genetic Algorithm for Optimization and generation of rules on 5 types of datasets, offering a streamlined approach with just 4 parameter adjustments.
- Achieved 90% confidence in rule-based predictions by optimizing Genetic Algorithm parameters and visualizing results with Matplotlib, delivering actionable insights to the mentor, accelerating research analysis..
- Reduced mentor’s workload by 30%, allowing for enhanced productivity in Ph.D. research.

Software Developer Intern, Digel Systems, Mumbai, India: June 2021 – August 2021

- Delivered a full-stack Pizza Parlour Management application, streamlining ordering, inventory tracking, billing, and authentication, **boosting operational efficiency by 40%**.
- Implemented a secure login system and automated billing, reducing manual effort by 50% and improving **accuracy by 30%**.
- Strengthened the company’s product portfolio by delivering a highly scalable automation solution, contributing to a **15% improvement in service efficiency**.

PROJECTS

LLM-Powered AI Chatbot for Automated Customer Support, 2025 [Link](#): *Python, OpenAI GPT, LangChain, FastAPI, Pinecone*

- Engineered a retrieval-augmented chatbot capable of answering customer queries with **95% accuracy**, reducing **response time by 60%**.
- Integrated vector search (FAISS/Pinecone) for efficient information retrieval, improving chatbot **relevance by 35%**.

Looto – Ecommerce Store, 2024 [Link](#): *React.js, HTML, CSS, Javascript*

- Created a full-stack e-commerce website with **20+ product categories**, integrating cart management & checkout functionality.
- Pioneered secure authentication using Firebase, **reducing unauthorized access risks by 80%**.
- Secured a payment gateway, ensuring **100% encrypted transactions** for potential scalability.
- Fetches real-time product data via APIs, **reducing inventory update lag by 90%**.

Face Recognition and Adversarial Masking Techniques, 2022: *Python, Jupyter, FaceNet, MTCNN, Keras*

- Enhanced face recognition models by overcoming limitations in existing libraries, **reducing dependency by 99%** and developed adversarial masking techniques for adversarial attacks.
- Published as first in “**2022 3rd International Conference for Emerging Technology (INCET)**” in [IEEE](#) Journal.

AWARDS & INVOLVEMENT

Spotlight Award,2024 and The Turn Around Troupe, 2023 - MetamorphoSys Technologies
Finalists, Smart India Hackathon ’22 (SIH), Innovation section of the Ministry of Human Resource Development, October 2021 – May 2022
Runner Up, Impetus and Concepts ’22, Pune Institute of Computer Technology, October 2021 - March 2022
Artist Volunteer, Team Everest NGO, August 2020