HARSHAD GORE

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SKILLS

Languages: C++, SQL, Python
Frontend: React, HTML5, CSS3
Backend: Node.js, Express.js, REST APIs
Databases: PostgreSQL, MySQL, MongoDB
Cloud: AWS EC2, IAM, VPC, ALB, Lambda, RDS, S3
LLMs & Retrieval: LLM Applications, Prompt Engineering, RAG Pipelines, Vector Embeddings, Semantic Search
AI & Machine Learning: Deep Learning, Computer Vision, PyTorch, TensorFlow, Transformers
Developer Tools: Git, GitHub, Docker

EDUCATION

B.Tech in Computer Engineering

MIT Academy of Engineering • Pune • Graduating - 2027 • 7.95

WORK EXPERIENCE

Intern - Pixaflip Technologies

June 2026 - Present, Pune

- Conducted structured manual testing across **12 application areas**, documenting **25 UI, UX, functional, consistency, and security findings** with reproducible steps and expected-versus-actual behaviour.
- Evaluated role-based workflows for admin, manager, and staff users, identifying **7 missing features, 6 functional improvements, and a session-security defect** across core product flows.
- Contributed to the development and maintenance of a full-stack web application, collaborating on frontend development, UI improvements, debugging, and feature implementation.

PROJECTS

Intelligent RAG Orchestrator & Document Intelligence Engine

MIT Academy of Engineering •https://github.com/Harshad-Gore/spring-ai-rag-orchestrator• snbnzkura.vercel.app • April 2026 - Present

- Architected a full-stack **RAG-based document intelligence platform** using React, PostgreSQL, S3-compatible storage, and JWT-based authentication with notebook-scoped document and conversation workflows.
- Implemented ingestion for PDF, DOCX, TXT, Markdown, CSV, and web content, extracting text with Apache PDFBox and Apache POI, splitting it into paragraph-aware chunks of up to **500 words**, and indexing them with **vector embeddings** to power **semantic search and retrieval**.
- Built streaming, source-cited **RAG chat** with query-intent routing and pinned-document filtering to ground LLM answers in retrieved document chunks, along with an AI presentation editor that generates **5–8 slides** from up to **20 document chunks**.

E-Waste Vision Classification (SDG 12)

MIT Academy of Engineering • github.com/Harshad-Gore/ewaste_vit_project • February 2026 - May 2026

- Benchmarked **7 CNN and transformer architectures** on **27,560 images across 18 e-waste classes**, achieving **98.11% test accuracy** and a **0.9811 macro F1-score** with the selected ConvNeXt-Tiny model.
- Developed a decision-support dashboard with **6 workspaces and 3 operational modes** for single-image classification, mixed-scene review, and sampled conveyor belt video analysis.
- Implemented a hazard-aware policy layer that maps model predictions to hazard level, material profile, disposal pathway, SDG 12 target, and human-review requirements.

Full-Stack Quiz Management & Assessment Platform

MIT Academy of Engineering • January 2025 - November 2025

- Built a secure full-stack assessment platform using Node.js, Express.js, MySQL, Firebase Authentication, and JWT validation, supporting **3 role-based access levels**.
- Developed a mobile-first analytics dashboard with Chart.js to visualise **4+ performance indicators**, including completion time, performance trends, and peer rankings.
- Containerised the application and database environment using Docker Compose to standardise local setup and development.

CERTIFICATIONS

Emerging Technologies Internship Certificate (AI & Cloud)

Edunet Foundation (In Collaboration with AICTE & IBM SkillsBuild) • 2025

Implemented a college admission assistant using IBM Cloud, applying conversational AI workflows to provide structured responses to student admission queries.