Divesh Adivarekar

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SUMMARY

AI & Data Science undergraduate (SGPA 9.71) building LLM agents, RAG pipelines and production backends; three internships. Winner of Code for Bharat (Microsoft), SIH 2025 Grand Finalist (Top 5), Top 0.2% in Amazon ML Challenge 2025. 1 patent granted, 1 patent and 1 trademark in process, 1 copyright registered.

EDUCATION

PVG's College of Engineering and Technology, Pune Aug 2024 – Jun 2027
B.E. Artificial Intelligence and Data Science – SGPA: 9.71 *Pune, India*

Rajarshi Shahu College of Engineering (Polytechnic), Pune Sep 2021 – Apr 2024
Diploma in Computer Engineering – 91.37% *Pune, India*

EXPERIENCE

Achieverr AI Mar 2026 – Present
AI & Software Development Intern

- Built LLM agent pipelines for Atlas (achieverr.ai), an AI career agent that finds and auto-applies to jobs (NVIDIA Inception).
- Built per-job LLM CV tailoring; tuned vector-DB indexing and retrieval in the RAG layer, improving contextual relevance.
- Optimized FastAPI and Node.js APIs, reducing latency and supporting higher request concurrency.

Mobisoft Infotech Sep 2025 – Feb 2026
Intern Project Lead, Project Mapparazzi (with a UK-based CIC) *Pune, India*

- Led a cross-functional team building a metro-centric real estate app covering 500+ properties, with valuation and commute metrics.
- Wrote Python data-ingestion scripts that cut processing time by 40% and removed manual entry errors.

Dolphin Labs Jun 2023 – Jul 2023
Embedded Systems Intern (Team Lead) *Pune, India*

- Led a team building a Wi-Fi-controlled autonomous vehicle with obstacle avoidance and ultrasonic/alcohol safety alerts.

PROJECTS

Super Assistant OS (AI-Native Operating Layer) | *Python, LLMs, LangChain, LangGraph*

- Built an agentic operating layer that runs natural-language workflows end to end, cutting execution time by 30% across 15+ commands.
- Designed a modular tool-calling framework with context-aware memory so agents plan and chain multi-step actions unaided.

Automated Multi-Modal Assessment System (Patent in Process) | *Python, TrOCR, BERT, NLP, Supabase*

- Built an AI grading engine pairing TrOCR handwriting recognition with BERT cosine-similarity scoring, cutting assessment time by 70% at 90%+ agreement with human graders.
- Added a rubric-based, keyword-aware scoring layer and a Supabase dashboard for real-time grade review and export.

Deepfake Detection Hub (Copyright Registered) | *Python, FastAPI, EfficientNet, LLaMA 3, Supabase*

- Built a media-authentication platform with 96% accuracy on 10,000+ samples in under 200 ms, using an EfficientNet-B0 classifier served through a FastAPI microservice.
- Generated LLaMA 3 explainability reports and built Supabase ingestion pipelines for real-time audio and video metadata.

ACHIEVEMENTS

- **Top 2, Lenovo LEAP Hackathon 2026:** CitizenEase, an LLM + Playwright agentic RPA system for government forms (DigiLocker, Bhashini, WCAG 2.2 AAA).
- **1st Runner-Up, MITWPU Ciphathon '26:** SentinAI, an autonomous exploit-detection and simulation platform.
- **Grand Finalist (Top 5), Smart India Hackathon 2025:** microgrid monitoring MVP (hardware and software) for Government of Odisha.
- **Top 0.2%, Amazon ML Challenge 2025:** top 200 of 82,788 teams on a 50 GB dataset of 150k product listings.
- **Winner, Code for Bharat (Microsoft, Noida):** shipped a working MVP in a $2,000 prize-pool hackathon.
- **Best Solution, Innovate You 24-hour techathon; Top 7, Odoo x Nirmal:** Krishi Sahayak, an AI AgriTech platform.

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, TypeScript, SQL
AI / LLM: LLM Agents, RAG, LangChain, LangGraph, Prompt Engineering, MCP, Hugging Face, PyTorch, TensorFlow, NLP
Backend & Data: FastAPI, Node.js, Next.js, React, REST APIs, PostgreSQL, MongoDB, Redis, Supabase, FAISS
Tools & Cloud: Docker, Git, CI/CD, AWS, GCP, Render, n8n

PATENTS & CERTIFICATIONS

- **Patent Granted (Jul 2026):** Multi-Compartment Waste Collection Cart with Load-Balanced Segregation System and Integrated Electronic Safety Compliance Mechanism.
- **Certifications:** TensorFlow-Keras Bootcamp, OpenCV University (2026); IBM SkillsBuild AI Literacy (2025); NVIDIA Fundamentals of Deep Learning (2024).