

Amey Patil

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PROFESSIONAL SUMMARY

AI and Software Engineering graduate specializing in backend systems, machine learning, and data-driven applications. Experienced in building scalable APIs, AI agents, and ML pipelines using Python, FastAPI, and cloud-native technologies. Proven ability to deliver production-ready solutions through internships and national-level hackathons, with a strong foundation in applied AI, system design, and real-world problem solving.

EXPERIENCE

AI Engineer - Invictusdata AI

July 2025 – Present

- Improved forecasting accuracy by implementing a rank-based model selection pipeline, enabling reliable demand and trend predictions across datasets. Built product-level forecasting and simulation systems for product launches and ad-spend optimization.
- Reduced manual data analysis time by enabling natural language to SQL querying through an AI agent built using Google Agent Development Kit (ADK).
- Deployed ML pipelines using AWS Lambda and built scalable APIs using FastAPI for model serving.

SDE Intern - PTC India

July 2024 – Dec 2024

- Increased testing efficiency by automating regression test cases for ThingWorx platform applications.
- Accelerated onboarding for new hires by delivering product demonstrations and technical walkthroughs.
- Improved application reliability by validating manufacturing solutions built on ThingWorx, including RTPPM systems.

ACADEMIC PROJECTS

- EndoCare- AI, Langflow, RAG, Web App – Enabled early endometriosis risk assessment by deploying an ML-driven prediction system and a medical literature-backed RAG assistant, improving user awareness and personalized symptom management.
- BlockBasket — Blockchain, Solidity – Increased transparency and trust in dairy supply chains by deploying smart contracts that reduced fraud and ensured immutable product traceability.
- Amazon Clone — MERN Stack – Delivered a fully functional e-commerce platform with secure authentication and product workflows, demonstrating real-world scalability and full-stack engineering proficiency.
- MamaGen AI — AI, NLP – Enhanced maternal health monitoring through NLP-powered mood analysis and trimester-based symptom tracking for proactive care insights.

TECHNICAL SKILLS

Languages: Python, Java, SQL, Golang

Backend & APIs: FastAPI, Node.js, Express

Machine Learning & AI: TensorFlow, Scikit-Learn, Pandas, NumPy, Langflow, Google Agent Development Kit

Data & Infrastructure: Apache Kafka, Docker

Cloud & Databases: AWS EC2, AWS Lambda, Amazon S3, Amazon Redshift

Tools: Git, Selenium, Playwright

ACHIEVEMENTS

- National Finals — e-Yantra Innovation Challenge (eYIC), IIT Bombay — Cleared multiple stages (Ideation, Innovation, Prototyping, Regional Finals) to reach the National Finals. Developed BlockBasket, a transparent dairy supply chain using blockchain. Conducted field visits, developed the idea, and pitched to industry experts.
- Winner — Prodeg National-Level Hackathon, Delhi University — Developed MamaGen AI, a web app helping pregnant women manage corporate work and health efficiently.

EDUCATION

PES Modern College of Engineering

B.E. in Artificial Intelligence and Machine Learning — 8.99 SGPA

Pemraj Sarda Junior College

Science — 84%

Pune, Maharashtra

2021 – 2025

Ahilyanagar, Maharashtra

2019 – 2021