

ANURAG PATIL

AI/ML Engineer • Software Engineer • Agentic AI • Intelligent Automation

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PROFILE

AI/ML and software engineering student with a 9.15 CGPA and hands-on experience building end-to-end systems across agentic AI, reinforcement learning, multimodal AI, optimization, distributed applications, blockchain, mobile and full-stack development. Multiple-time hackathon winner focused on turning research-oriented ideas into functional, production-style systems. Currently working as an AI/Automation Intern at Athena Automations.

EXPERIENCE

Athena Automations — AI/Automation Intern

Jul 2026 – Present

- Working on AI-driven automation and intelligent software workflows.
- Contributing to practical automation solutions using modern AI technologies.
- Applying software engineering and AI/ML concepts to real-world automation problems.

EDUCATION & ACHIEVEMENTS

Marathwada Mitra Mandal's College of Engineering, Pune
Engineering • CGPA: 9.15
Symbiosis School, Pune
2012 – 2022

- Winner — Avinya 2026, IEEE MMCOE
- Winner — Varithon, MMCOE
- Runner-up — Xenia, PICT
- Selected — In-house Project Competition
- MMCOE · 2026 — Selected for 3-day live deployment within the college

SELECTED PROJECTS

SWARMRoute — Autonomous AI fleet optimization and disruption-recovery platform combining OR-Tools, machine learning, PPO reinforcement learning, vehicle coordination, mesh communication and fuel/CO₂ simulation.

OrkaAI — Agentic AI execution platform with Web, Flutter and CLI clients, Gemini-powered task planning, Google Workspace integrations, approval gates, execution DAGs and auditable receipts.

AgentMesh — Multi-agent AI orchestration platform using DAG-based planning, specialized AI agents, competitive task quotes, x402 payments, Algorand and PyTeal smart contracts.

VariMitra — Offline-first multi-hop mesh SOS and disaster-management system using Web Bluetooth, store-and-forward networking, Supabase Realtime and PWA technologies.

Blind-Spot — Multimodal Video Intelligence — Semantic video search pipeline combining LLaVA, Whisper, OCR, embeddings, ChromaDB, scene detection and reranking to locate specific moments in videos.

EDI Validator — OpenEnv RL Environment — Gymnasium/OpenEnv reinforcement-learning environment for EDI X12 validation and reward-trajectory drift detection.

ADDITIONAL PROJECTS

AlumniConnect (Java/JDBC + MySQL) • Agentic Dev CLI • Jarvis AI Assistant (Gemini) • NexaAura (Flutter/Firebase) • Fine-Tuned Universe (Flutter) • AI/ML Movie Recommendation App (Kotlin)

TECHNICAL SKILLS

Programming: Python, Java, TypeScript, JavaScript, Dart, Kotlin, C++

AI/ML: Machine Learning, Reinforcement Learning, PPO, LLM Applications, RAG, Multimodal AI, Computer Vision, OCR, Speech, Embeddings, Semantic Search

Frameworks: PyTorch, scikit-learn, Stable-Baselines3, Gymnasium, OpenEnv, FastAPI, Spring Boot, React, Next.js, Flutter, Jetpack Compose

AI / LLM: Gemini, LLaVA, Whisper, Ollama

Backend / Data: REST APIs, WebSockets, OAuth 2.0, JDBC, PostgreSQL, MySQL, Supabase, Firebase, Redis, ChromaDB, IndexedDB

Cloud / Tools: AWS, Docker, Docker Compose, Linux, Git, GitHub, OR-Tools, NetworkX, Algorand, PyTeal, x402, Web Bluetooth, Maven

CERTIFICATIONS

AWS Cloud Certification • Oracle Java Certification • Additional technical certifications

OTHER ACTIVITIES

Strong communication skills • Football • Volunteering

INTERESTS

Agentic AI • Reinforcement Learning • Intelligent Automation • Multimodal AI • Distributed Systems • Robotics • Developer Tools