Atharv More

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SUMMARY

Computer Engineering student with hands-on experience in LLMs, coding agents, and generative AI using frameworks such as LangChain, LangGraph, TensorFlow, and PyTorch. Experienced in building, experimenting with, and deploying AI systems end-to-end, with a strong foundation in machine learning, problem-solving, and real-world application development. Actively seeking opportunities in AI and machine learning across research and industry settings.

SKILLS

- **Programming Languages:** Python, C++, SQL
- **AI/ML:** Generative AI, TensorFlow, PyTorch, Pydantic, LangChain, LangGraph, Qdrant
- **Data Handling:** Data Analysis, Preprocessing, Pandas, NumPy, Matplotlib, Seaborn
- **Tools & Platforms:** Git, GitHub, Docker, GCP, AWS, Postman, Jupyter Notebook, Google Colab
- **Web Technologies:** React, HTML, CSS
- **Databases:** MySQL, MongoDB

EDUCATION

B.E. in Computer Engineering (AI & ML Honors), Sinhgad College of Engineering (SCOE) Oct 2022-July 2026

- GPA: 8.05/10
- Relevant Coursework: Data Structures, Machine Learning, AI, DBMS, Operating Systems, Computer Networks, Cloud Computing, Mathematics, Data Analytics

12th HSC – MP International School May 2020-Jun 2022

- Percentage: 79.33

EXPERIENCE

Machine Learning Intern, CloudMotiv Aug 2025- Present

- Designed and implemented a **scalable RAG architecture** using PymupdfLLM for PDF parsing, LangChain Recursive Character Text Splitter, Sentence Transformers (all-MiniLM-L6-v2), and Qdrant, enhanced with a **semantic caching layer** to significantly improve document ingestion efficiency and retrieval latency for context-aware responses.
- Developed **JWT-based authenticated REST APIs** and deployed the end-to-end system on an **AWS cloud environment**, enabling secure multi-user access, scalable testing, and production-grade inference workflows.

AI Research Analyst Intern, NRG Extern Aug 2024- Sep 2024

- Categorized over 12 AI risk types using research tools for internal AI policy, streamlining risk assessment for strategy teams.
- Drafted a case study mapping real-world incidents to model failure risks, later presented in 2 internal briefings.
- Synthesized technical findings into 5 actionable briefs for client awareness, supporting early-stage AI governance planning.

PROJECTS

Space Invaders with Reinforcement Learning (DQN and Atari) (Link)

- Created and fine-tuned a Deep Q-Network (DQN) agent to play Space Invaders using Stable-Baselines3 and RL Zoo, applying techniques like frame stacking, replay buffers, and target network updates across 600K training steps for stable convergence.
- Deployed the trained model on Hugging Face Hub by packaging model weights and configuration, enabling reproducible inference and public access through RL Zoo CLI and Hugging Face integrations for evaluation and community use.

Prototype Routing Transformer (Link)

- Proposed and implemented a novel Prototype Routing Transformer architecture that introduces dynamic token-to-prototype routing to improve contextual representation learning and information flow within transformer layers.
- Executed a research-grade end-to-end pipeline in PyTorch covering model design, training, controlled experiments, and evaluation, including ablation-style analysis to study the effect of routing mechanisms on representation quality

LEADERSHIP AND CERTIFICATIONS

- AI/ML Lead at CodeChef SCOE Chapter (Dec 2022–Apr 2025), conducted Python and ML workshops for 100+ students, mentored 10+ in Python/ ML with 2 projects, and organized ML coding competitions for 40+ participants.
- A-Z Data Science & Machine Learning (Udemy)
- Postman - API Student Expert
- Oracle - OCI Generative AI Professional
- HuggingFace - Deep Reinforcement Learning

OPEN SOURCE AND RESEARCH

Student Researcher - Cohere for AI: Contributed to AYAMED by building RAG LLM model to improve healthcare in addressing NCDs and VBDs in low- and middle-income countries.

Research – Hive Mind: Conducted applied AI research on sustainable apiculture by integrating **YOLOv5-based real-time object detection** with multimodal deep learning (image, audio, sensor data) to detect bee health anomalies and enable predictive hive monitoring.