PIYUSH SAHOO

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GitHub: https://github.com/piyushthewizard | LinkedIn: https://linkedin.com/in/piyushthewizard

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SUMMARY

AI/ML Engineer passionate about crafting innovative digital solutions through cutting-edge machine learning, large language models, and cloud-native deployment. Demonstrates strong end-to-end ownership across the ML lifecycle: from research and prototyping to production-ready deployment and collaboration with cross-functional teams. Excels in fast-paced, agile environments, blending deep technical expertise (Python, MLOps, LLMs, DevSecOps) with a collaborative spirit and commitment to continuous innovation and knowledge sharing. Adept communicator and leader with a track record of impactful project delivery and open-source engagement.

SKILLS

Programming Languages:

Python, Java, JavaScript, TypeScript (basic), C/C++, R, SQL, HTML, CSS, Bash

AI/ML & Data Science:

scikit-learn, TensorFlow, PyTorch (basic), Pandas, NumPy, OpenAI API, LangChain, LangGraph (intro), Autogen (intro), NLTK, LLM Prompt Engineering, Data Visualization, A/B Testing, Statistical Analysis, Data Wrangling

Web & Cloud:

React, Node.js, Flask, FastAPI, MongoDB, RESTful APIs, Docker, Kubernetes (fundamentals), AWS (EC2/S3/Lambda – in progress), GCP (deployment), Azure (familiar), CI/CD (GitHub Actions, Jenkins – learning), Microservices, OAuth, Netdata, Dokku, Microcks

DevOps, MLOps, and Big Data:

Cloud Deployment, Containerization, Model Serving, Workflow Automation, Infrastructure Monitoring, Version Control (Git), Hadoop/Spark (basic), NoSQL

Certifications:

AWS Certified Machine Learning – Specialty (in progress)
Google Data Analytics Professional Certificate (Coursera, expected May 2024)
[Plan to pursue:] Oracle Certified Java Programmer, Microsoft Certified: Azure Developer Associate

Soft Skills:

Collaboration, Communication, Teamwork, Leadership, Problem-Solving, Critical Thinking, Continuous Learning, Project Management, Analytical Thinking

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EDUCATION

Bachelor of Technology in Computer Science & Engineering

RV University, Bangalore, India — 2021–2025 (Expected)

CGPA: 8.56/10

Relevant Coursework: Machine Learning, Deep Learning, Natural Language Processing, Data Structures & Algorithms, Cloud Computing, DevOps, Software Engineering

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PROJECTS

1. Research Gap Analytics with LLMs (LangChain, Semantic Scholar) | GitHub:
https://github.com/piyushthewizard/llm-research-gap

Designed and deployed an automated workflow leveraging LangChain, OpenAI GPT-3.5, and Semantic Scholar APIs to identify research gaps in AI literature.
Engineered prompt chains for paper categorization, summarization, and semantic similarity search; orchestrated multi-agent tasks using LangChain (and initial experimentation with LangGraph), enabling end-to-end pipeline automation.
Containerized solution with Docker; explored deployment on GCP virtual machines for scalable execution.
Outcome: Reduced manual literature review time by approx. 70%; shared open-source codebase and documentation to enable adoption by the research community.

2. Apna Meetup Platform (Full-Stack MERN) | GitHub:
https://github.com/piyushthewizard/ApnaMeetup

Led development of a community-driven platform to streamline the creation and discovery of tech meetups/workshops.
Implemented React for frontend, Node.js/Express/mongoDB backend with JWT-based authentication; deployed on AWS EC2, automated via GitHub Actions.
Orchestrated cloud-native deployment, implemented monitoring using Netdata, and containerized APIs using Docker for maintainable scaling.
Impact: Enabled 500+ registrations across 10+ events; facilitated cross-campus collaboration and mentorship.

3. ChatterBot NLP Chatbot & Model Serving | GitHub:
https://github.com/piyushthewizard/ChatterBot-ML

Built and fine-tuned a conversational AI chatbot using NLTK, Flask, and scikit-learn pipelines for intent classification and entity extraction.
Integrated basic prompt engineering logic; initial experiments with deploying fine-tuned models via FastAPI endpoints exposed through Docker and K8s (on Minikube for testing).
Documented MLOps workflow for data versioning, CI/CD experimentation, and cloud deployment (AWS/GCP).
Adoption: Used by a student community as a live FAQ support bot.

4. Sorting Algorithm Visualizer | GitHub:
https://github.com/piyushthewizard/SortVisualizer

Developed an interactive, web-based visualization tool for teaching sorting algorithms.
Showcased proficiency in ReactJS, D3.js, and state management for real-time UI updates.
Organized workshops based on this project — 200+ students engaged across colleges; project adopted in campus hackathon prep curriculum.
Further notable projects and open-source contributions listed at
https://github.com/piyushthewizard.

WORK EXPERIENCE

Machine Learning Engineering Intern

CODMAV, Bangalore, India | Jun 2023 – Sep 2023

Led ML research and prototyping for predictive analytics in operations optimization.
Designed and trained regression and classification models using Python, scikit-learn, and TensorFlow; performed comprehensive feature engineering and data wrangling.
Automated experiment tracking and model evaluation, reducing iteration time by 30%.
Collaborated in DevOps workflow: containerized model inference with Docker, documented workflow automation with basic Jenkins pipelines, and supported cloud deployment testing on GCP.
Authored clear reports and onboarding guides; participated in cross-team demos with product managers and backend teams.

Founder & Tech Lead

Apna Meetup (Community Nonprofit), Bangalore, India | Sep 2022 – Present

Established and scaled a student tech community, orchestrating 10+ large-scale workshops with >700 participants over one year.
Led a cross-functional team (devs, marketers, educators) to build, deploy, and maintain the Apna Meetup platform; mentored peers in full-stack and ML fundamentals.
Drove partnerships with campus clubs and industry pros to foster collaborative learning and project-driven hackathons.
Outcome: Sparked community adoption of open-source tools; recognized by RV University's innovation cell.

Competitive Programming & Hackathons

1st Place, CodeChef Clash of Codes Hackathon (2023) – solved end-to-end full-stack engineering and ML problems under time constraints.
Consistently ranked in top quartile on LeetCode and Codeforces.

OPEN SOURCE & COMMUNITY ENGAGEMENT

Notable contributions to LangChain and fastai repositories (PRs for documentation and feature tweaks).
Authored technical blogs and guides on LLMs, prompt engineering, and reproducible ML, published at piyushsahoo.dev.
Presented lightning talks at local PyData and MLDS events ("Automating Research with LangChain").
Active participant in Stack Overflow and Discord/Slack ML communities.

TECHNICAL ACHIEVEMENTS & AWARDS

1st Place – CodeChef Clash of Codes Hackathon, 2023
Finalist – RVU Innovation Challenge: "AI for Social Good," 2022
Organizer – Bangalore Tech Community's "GenAI in Action" Meetup, 2023

CONTINUOUS LEARNING

Enrolled in AWS Machine Learning Specialty and Microsoft Azure AI Fundamentals certification courses.
Completed "Modern MLOps with TensorFlow on Google Cloud" (Coursera).
Regularly attend webinars on LLMs, prompt engineering, and agentic framework advances (LangChain, Autogen, LangGraph).
Currently self-studying the implementation and optimization of advanced LLM inference (OpenAI GPT, Gemini, Claude, etc.).

ADDITIONAL INFORMATION

Languages: English (Fluent), Hindi (Native)
Availability: Immediate
Relocation: Open to Bengaluru/Remote
Portfolio: https://piyushsahoo.dev

References available upon request.

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