

Shinde Aditya

Machine Learning Engineer

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PROFESSIONAL SUMMARY

Machine Learning Engineer specialized in Agentic AI systems, LLM fine-tuning, and RAG pipelines. Proficient in Python, PyTorch, LangChain, and Hugging Face. Experience in building scalable, real-world AI workflows and deploying solutions on AWS. Passionate about advancing AI applications through innovation, precision, and adaptability.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, TypeScript
- **Frameworks & Libraries:** PyTorch, TensorFlow, Scikit-learn, Hugging Face Transformers, LangChain, CrewAI, AutoGen, spaCy, NLTK
- **AI & Machine Learning:** Large Language Models (LLMs), Agentic AI Systems, Retrieval-Augmented Generation (RAG), LoRA Fine-tuning, Prompt Engineering, Reinforcement Learning, Deep Learning, NLP
- **Databases & Vector Stores:** Pinecone, FAISS, ChromaDB, PostgreSQL, MongoDB
- **Cloud & Tools:** AWS (SageMaker, EC2, S3), Docker, Git, Power BI, Hugging Face Hub, OpenAI API
- **Other Competencies:** Data Analysis, Data Visualization, CI/CD, Mathematics, Statistics, Critical Thinking, Research, Agile Collaboration

PROJECTS

- **ML-Assert** GitHub — PyPI
Python, Scikit-learn, MLflow, Poetry, CI/CD
 - **Testing Library:** Developed a package for validating ML assumptions, feature distributions, and model consistency.
 - **CI/CD Pipelines:** Integrated unit tests, auto-publishing, and coverage workflows in GitHub Actions.
 - **Deployment:** Packaged and released to PyPI with detailed documentation and CLI tooling.
- **DevFlow-AI** GitHub — Docs
Python, FastAPI, LangChain, TypeScript, ChromaDB, Tree-sitter, Redis, Docker, OpenAI
 - **LLM Dev Assistant:** Built an AI-powered developer assistant that indexes codebases and enables contextual prompts.
 - **Architecture:** Integrated FastAPI backend, Redis cache, ChromaDB, and VS Code extension.
 - **Deployment:** CI/CD pipelines with Dockerized workflows for production rollout.
- **torch-seccorder** GitHub — PyPI
Python, PyTorch, Sequence Modeling, Poetry, CI/CD
 - **Library Development:** Implemented utilities for handling and reordering sequential inputs for neural models.
 - **Testing + Release:** Built CI workflows and automated packaging for PyPI distribution.
- **Personal Portfolio + Learning Hub** heyshinde.com
Next.js, TypeScript, Sanity CMS, TailwindCSS, Prisma, NeonDB, NextAuth
 - **Web Architecture:** Developed a full-stack site with projects, blogs, and interactive course modules.
 - **CMS Integration:** Used Sanity.io as headless CMS with dynamic content loading via API routes.
 - **Deployment:** Live deployed with GitHub CI and Vercel builds.
- **Text-to-Image Generator (LoRA)** Hugging Face
Stable Diffusion XL, LoRA, RunPod, Hugging Face
 - **Model Fine-tuning:** Trained a fashion-specific LoRA module on SDXL using custom prompts and datasets.
 - **Model Hosting:** Published inference-ready model on Hugging Face for public access and experimentation.

EXPERIENCE

- **Data Science Intern** Feb 2024 – June 2024
Conquest Technology Solutions *Hyderabad, India*
 - **Power BI Dashboards:** Developed interactive KPI dashboards using **Power BI**, enabling non-technical teams to track business metrics in real time.
 - **Exploratory Analysis:** Performed EDA on large-scale transactional data using **Python (Pandas, NumPy)**, identifying key insights and trends.
 - **Automated Reporting Pipelines:** Built data pipelines using **SQL, Power Query**, and **Excel automation**, reducing manual reporting efforts by 45%.
 - **Stakeholder Collaboration:** Collaborated with data analysts and engineers to visualize key performance metrics; communicated deliverables to leads weekly.
 - **Predictive Modeling:** Contributed to early-stage ML models for classification and regression tasks, focusing on preprocessing and feature selection.

EDUCATION

- **Bachelor of Technology in Data Science & Artificial Intelligence** Sep 2021 – Oct 2025
Woxsen University, Hyderabad, India

CERTIFICATIONS

- **LLM & Generative AI: LLM Engineering: Master AI, Large Language Models & Agents** – Udemy
The Complete Agentic AI Engineering Course – Udemy
- **Cloud & MLOps: AWS Fundamentals: Going Cloud Native** – Amazon Web Services (Coursera)
- **Data Science Foundations: Python for Data Science, AI and Development** – IBM (Coursera)
Exploratory Data Analysis for Machine Learning – IBM (Coursera)
Data Engineering Specialization – Coursera
- **AI Literacy: AI for Everyone** – Andrew Ng (Coursera)

ACHIEVEMENTS

- **Published Research – AI for Coral Species Classification:** Co-authored a peer-reviewed paper titled “*AI Infused Underwater Analysis for Enhanced Coral Species Classification*” accepted at IndiaCom 2025, showcasing environmental AI using CNNs for marine biodiversity mapping.
- **Best Presentation Award – OIST Hackathon:** Led a cross-functional team to develop a real-time language translation tool using speech-to-text APIs and transformer-based models; recognized for clarity, innovation and technical depth.
- **PyPI Author – Open-Source ML Tools:** Published multiple production-grade Python packages to PyPI (`ml-assert`, `torch-secorder`) with CI/CD pipelines, documentation, and adoption-ready CLI tools.

EXTRACURRICULAR ACTIVITIES

- **Vice-President – Codex (Programming Club):** Led community building and technical participation for 100+ members. Organized biweekly AI/ML seminars, coding competitions, and guest lectures from industry professionals.
- **Core Tutor – Codex AI Wing:** Mentored junior students on core ML concepts, project workflows, and effective Git collaboration. Designed modular learning tracks in NLP, Computer Vision, and LLMs.