SARVESH KESHARWANI
Gen AI/ML Engineer

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SUMMARY

- Experienced Generative AI/ML Engineer with expertise in **Generative AI**, NLP, Chatbots/Agentic AI, and MLOps. Skilled in Python, SQL, and cloud platforms (**AWS**, GCP). Proficient in building scalable AI/ML solutions, optimizing data pipelines. Certified in Advanced Data Science & AI with hands-on experience in model development, testing, deployment, and monitoring.

SKILLS

- Generative AI: **LLMs**, Fine-tuning, **RAG**, NLTK, Hugging Face, **GenAI, OpenAI,** Ollama
- ML & Deep Learning: PyTorch, TensorFlow-Keras, OpenCV, NLTK, Spacy
- Programming Languages: **Python**, Java, Node.js, SQL (Oracle **SQL**, PostgreSQL, MongoDB)
- Data Processing & ETL: Pandas, NumPy, Scipy, Dask, Apache Spark, Selenium
- Cloud & DevOps: **AWS** (SageMaker, EC2, S3, Bedrock, Lambda), GCP, Docker, Kubernetes, CI/CD
- Frameworks & Tools: MLflow, **LangChain**, LangGraph, LlamaIndex, Vector Databases (**Pinecone**/FAISS/Weaviate)

EXPERIENCE

AI/ML Engineer

Infosys Ltd. | Indore, India | 2022 - Present

- Developed and deployed a Retrieval-Augmented Generation (RAG)-based banking chatbot leveraging advanced generative AI capabilities. The solution integrated **Pinecone**'s high-performance vector database for efficient semantic search, **OpenAI** large language models for natural language understanding, **AWS** for scalable cloud deployment, and the LangChain **GenAI** framework for streamlined **RAG** workflows. Comprehensive RAG evaluation ensured robust performance and accuracy. This deployment empowered banking software users to better understand platform functionalities, resulting in a 35% reduction in support ticket volume and a 50% improvement in customer query resolution efficiency.
  - technologies used: Lanchain, AWS, LLms, OpenAI, Pinecone
- Developed and deployed **unsupervised** model for fraud detection in banking applications, reducing fraudulent transactions by 30% and enhancing security for 10M+ Finacle users.
  - technologies used: Python, Isolation Forest, Sklearn
- Built and implemented issue classification and auto-tagging models, improving defect tracking accuracy by 40% and reducing resolution time by 25%.
  - technologies used: XGBOOST, JIRA API

Machine Learning Engineer

Unify AI | Remote | 2021 - 2022

- Implemented CV and NLP models such as RegNet-50, InceptionNetV3 using the Ivy ML framework.
- Developed core functions (ReLU, GELU, transpose, conv2d) across multiple backends (NumPy, JAX, Paddle, TensorFlow, PyTorch) following TDD methodologies.
- Optimized the core product by writing, tracing, and debugging AST code in Cython, resulting in a 30% performance improvement in model execution.
- Achieved two promotions within a short span, based on contributions that led to a significant increase in model deployment efficiency and scalability.

Google Summer of Code (GSoC) Contributor & GitHub Octernship

Ivy ML Framework | Remote | 2021

- Successfully developed and merged a pull request for core functionality, leveraging expertise in software development and data science. This contribution played a key role in advancing to the second round and successfully passing the video interview stage.
- Initiated contributions to my target organization three months before the Google Summer of Code (GSoC), collaborating with team members to refine and develop my proposal.

PERSONAL PROJECTS

99acres.com House Price Regression Project

- Developed an ML pipeline from data scraping (Selenium) to model deployment using AWS.
- Built and optimized models (including XGBoost) for property value prediction and recommendations.
- Deployed the solution with CI/CD pipelines and created an interactive Streamlit app for insights.

Spam Classifier NLP Project

- Built and deployed an NLP-based spam classifier to identify and filter out spam messages.
- Used machine learning techniques such as TF-IDF and word embeddings for feature extraction.
- Trained models using logistic regression, Naïve Bayes, and deep learning techniques for improved accuracy.

EDUCATION

Bachelor or Engineering in Computer Science and Engineering

- Hitkarini College of Engineering and Technology, Jabalpur | 2016 - 2019

CERTIFICATION

- Advanced Data Science & AI Certificate – IBM
- Machine Learning with Python Certificate – Microsoft