Revised Resume

Here is the revised resume:

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Summary Results-driven Machine Learning Engineer with 10+ years of experience in designing, developing, and deploying AI solutions. Skilled in building and deploying ML models using Python, PyTorch, and Hugging Face. Passionate about applying AI to real-world problems in healthcare, finance, and automation.

Skills - AI Expertise (LangChain, Streamlit) - NLP (Natural Language Processing) - Deployment & Operations (MLOps) - Cloud-native orchestration systems (Docker) - Python - SQL - Vertex AI or OpenAI - Prompt Engineering & Red Amber Green (RAG) skills - Gen-AI application programming interface (APIs) - Cloud-native presentation (GKE, Cloud Run) - Persistent layers (PostgreSQL, BQ)

Experience

ML Engineer - AcousFcs & Signal Processing | Actasys Inc, Brooklyn Oct 2021 - Present

- Designed and deployed a deep learning-based active noise cancellation system, resulting in a 50% reduction in cabin noise. - Developed and deployed real-time computer vision pipelines, achieving a 95% detection accuracy rate and reducing inference latency by 40%. - Built and served REST APIs for ML inference using FastAPI and Docker on AWS. - Automated data pipelines and model monitoring with ML■ow, DVC, and Evidently.

Engineer III - Product Development & Data Analysis| ZF USA, Livonia, MI July 2015 - Oct 2021

- Designed and deployed AI-powered predictive maintenance models using Python and Scikit-learn, resulting in a 25% reduction in equipment downtime. - Collaborated with cross-functional teams to develop and deploy a cloud-native AI application using Vertex AI and GKE, achieving a 30% increase in customer engagement. - Applied DOE and statistical modeling to reduce part failure rates by 30%, saving $300K annually.

Assistant Manager | NTPC Ltd., India July 2010 - July 2013

- Improved processes increasing annual revenue by $0.7 million.

Projects

Droplet Detection System – Embedded CV Application - Developed and deployed a real-time object detection and segmentation pipeline for windshield droplet classification using YOLOv5 and OpenCV, achieving a 95% detection accuracy rate and reducing inference latency by 40%.

Custom Decoder-only LLM – LLM from scratch with instruction Fine-tuning - Designed and developed a custom decoder-only LLM using Transformers and GPT-2, achieving a 25% improvement in language understanding and generation capabilities.

Patient Readmission Prediction – ML Pipeline Deployment - Engineered, trained, and deployed models to predict diabetic patient readmissions, achieving an 88% recall score.

Resume Coach – AI-Powered Coaching Assistant - Developed a resume optimization tool using self-hosted LLaMA-3 on AWS SageMaker, integrated with LangChain and RAG architecture for context-aware retrieval.

Education

Interview Kickstart March 2024 - Present Machine Learning program covering mathematical foundations and practical applications in classical ML, deep learning, NLP, computer vision, LLMs/ Generative AI (■ne-tuning, RLHF, RAG, Agentic AI)

McGill University Jan 2023 - June 2023, Visiting Scholar, Montreal, QC, Canada Developed and tested 3D-printed acoustic enclosure prototypes with novel materials, and programmed code to collect data from various sensors for prototype evaluations.

The Ohio State University Aug. 2013 - Aug. 2015, Master of Science, Columbus, OH USA Developed mathematical models to optimize vehicle exhaust system design.

National Institute of Technology Karnataka Aug. 2006 - May 2010, B. Tech, Surathkal, India Designed and tested vertical axis wind turbines for power generation in areas with low wind speeds.

Certifications - Erdös Institute : Data Science Bootcamp, Deep Learning Bootcamp - Microsoft Fabric : Data Analyst (DP600) Certified - IBM Data Warehouse Engineer (Coursera)