Shriyansh Singh

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SUMMARY

Software Engineer specializing in AI/ML systems with expertise developing scalable GenAI solutions, optimizing ML infrastructure, and implementing data pipelines that drive innovation and business impact.

PROFESSIONAL EXPERIENCE

Machine Learning Engineer

April 2024 - Dec 2024

 $Hyphenova\ AI$

Los Angeles, CA

- Designed and implemented production-ready GenAI solutions utilizing LLMs that processed 5TB of unstructured data with 99.7% reliability, enhancing customer engagement by 42%
- Orchestrated end-to-end ML pipelines using Airflow and Kubernetes that automated model training, evaluation, and deployment, reducing time-to-production from weeks to days
- Engineered modular Python libraries for model optimization and feature engineering, improving inference latency by 68% while maintaining prediction accuracy
- Collaborated with cross-functional teams through comprehensive code reviews and documentation, ensuring compliance with best practices and system architecture standards

AI/ML Systems Developer

May 2022 - Oct 2022

Enterprise Business Technologies Pvt Ltd

Mumbai, India

- Developed distributed ML training infrastructure using TensorFlow and PyTorch that processed multi-modal data, accelerating experimentation cycles by 45%
- Implemented CI/CD pipelines with Git and CircleCI for ML model versioning and automatic testing, ensuring reproducibility and code quality
- Constructed robust data preprocessing components using Python and SQL that handled data cleaning, feature extraction, and transformation for ML model training
- Formulated technical specifications from ambiguous business requirements into actionable ML system architecture designs with clear acceptance criteria

PROJECTS

Large Language Model Fine-tuning System | PyTorch, CUDA, Hugging Face, Docker, AWS

Jan 2024 - Apr 2024

- Architected an end-to-end system for fine-tuning foundation models on domain-specific data using $\mathbf{PyTorch}$ and $\mathbf{Hugging}$ Face transformers, achieving 87% task accuracy
- Implemented distributed training infrastructure with CUDA optimization techniques that reduced training time by 65%, enabling rapid experimentation
- **Designed** model compression and quantization workflows that decreased model size by 75% while maintaining 92% of original performance for efficient deployment

Real-time ML Inference API | TensorFlow Serving, FastAPI, Kubernetes, Prometheus, Google CloudSep 2023 - Dec 2023

- Engineered scalable ML inference service using TensorFlow Serving and FastAPI that efficiently processed 10,000+ prediction requests per second with ;100ms latency
- Containerized the application with Docker and orchestrated deployment on Kubernetes clusters, ensuring high availability and automatic scaling
- Integrated comprehensive monitoring with **Prometheus** that tracked model drift, prediction latency, and system health metrics, enabling proactive issue detection

SKILLS & CERTIFICATIONS

Programming: Python, C++, SQL, Go, Shell Scripting, YAML, JSON

ML/AI Technologies: TensorFlow, PyTorch, Hugging Face, scikit-learn, LangChain, Weights & Biases

Cloud & Infrastructure: Google Cloud, Kubernetes, Docker, Terraform, AWS (Lambda, S3, SageMaker)

Data Processing: Airflow, Spark, Kafka, Beam, TensorFlow Data Validation, NumPy, Pandas

Software Engineering: System Design, Microservices, RESTful APIs, gRPC, CI/CD, Git

Monitoring: Prometheus, Grafana, DataDog, Google Cloud Monitoring

EDUCATION

Indiana University Bloomington

Aug 2023 - May 2025

Master of Science in Data Science

 $Indiana,\ United\ States$

• Relevant Coursework: Machine Learning Systems, Deep Learning, Natural Language Processing, Cloud Computing, Distributed Systems

• GPA: 3.8/4.0