SHARMI DAS

AI Engineer – Healthcare AI ,Toronto, ON, Canada | Remote (Canada)
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ABOUT ME

AI Engineer with hands-on experience building **production-oriented AI systems for healthcare workflows**, including document understanding, information extraction, and predictive modeling. Strong background in NLP, retrieval-augmented generation (RAG), and end-to-end ML pipelines using Python and cloud platforms. Comfortable owning AI systems from ideation through deployment, validation, and iterative improvement in messy, real-world environments.

EDUCATION

- **MSc – Data Science & Analytics**
  Toronto Metropolitan University,**Vector Scholarship in Artificial Intelligence,Hack the World Hackathon – Winner** (AI-driven solution)
- **Graduate Certificate – Artificial Intelligence & Machine Learning**
  Humber College
- **BTech – Computer Science & Engineering**
  Future Institute of Technology

MY SKILLS

Applied AI

- Document Understanding, NLP, Entity Extraction
- Retrieval-Augmented Generation (RAG), LLM Workflows
- Predictive Modeling, Model Validation & QA
- Generative AI (practical, applied use cases)

Engineering & MLOps

- Python , Modular System Design
- Model Deployment, Monitoring, Iterative Improvement
- REST-style Inference Pipelines, Debugging
- Git, CI/CD Concepts, Linux

Data & Systems

- Structured & Unstructured Healthcare Data
- ETL Pipelines, Data Validation & Reconciliation
- SQL, PySpark, Distributed Processing
- Integration with Legacy / Imperfect Systems

Cloud

- AWS (EC2, S3, SageMaker), Azure (OpenAI, Notebooks), GCP

EXPERIENCE

Graduate Researcher / AI Engineer (Healthcare)

Toronto Metropolitan University | Sep 2024 – Aug 2025

- Built **end-to-end AI pipelines** on **7,900+ healthcare patient records**, integrating structured clinical variables with complex, unstructured biological data.
- Developed predictive and survival modeling systems to support clinical decision-making, emphasizing **robust validation, interpretability, and reliability**.
- Designed Python-based data ingestion, preprocessing, feature engineering, training, and evaluation workflows suitable for production environments.
- Implemented systematic testing and evaluation pipelines to validate model performance across heterogeneous patient cohorts.
- Worked extensively with noisy, incomplete, and real-world healthcare data, mirroring operational clinical systems.

Machine Learning Engineer

Spherica Jewelry LLC (Remote) | Jan 2024 – May 2024

- Built **production-style Generative AI pipelines** (GANs, VAEs, diffusion models) for automated content generation, reducing manual iteration time by ~40%.
- Developed inference and evaluation workflows in Python, taking models from experimentation to deployment-ready pipelines.
- Collaborated cross-functionally to integrate AI outputs into real business workflows.

Graduate Assistant (Technical Systems Support)

Toronto Metropolitan University | Jan 2025 – Aug 2025

- Provided real-time debugging and validation support for **Python-based ML pipelines, data workflows, and system-level issues**.
- Strengthened expertise in testing, failure analysis, and troubleshooting complex AI systems under time constraints.

BUILT

- **Healthcare ML Pipelines:** Deployed stroke risk prediction workflows on AWS with validation and evaluation loops.
- **Document & Knowledge AI:** Built a **LangChain-based RAG system** using vector databases and LLMs to extract and answer domain-specific questions with grounded responses.