

Saahir Dhanani

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Education

Georgia Institute of Technology

Aug 2023 – May 2024

- M.S. in Computer Science | Concentrating in Machine Learning | GPA: 4.0

Georgia Institute of Technology

Aug 2020 – May 2023

- B.S. in Computer Science | Concentrating in Intelligence and Systems & Architecture | GPA: 3.97
- *Relevant Coursework:* Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Deep Learning, Algorithms Design, Processor Design, High Performance Computer Architecture, Compilers, Systems & Networks, Operating Systems

Experience

Machine Learning Engineer, NCR Voyix

July 2024 – Present

- Redesigned time series forecasting system for sales and item demand across hundreds of restaurant locations, improving model accuracy by 30% and reducing training time by ~70x
- Led migration from Kubeflow to Databricks, building a scalable ML platform that cut infrastructure costs by 80% and enabled faster experimentation and deployment
- Built production-grade ML pipelines for data ingestion, feature engineering, training, and daily inference using Spark Structured Streaming, Databricks Workflows, and BigQuery, processing multi-terabyte datasets
- Implemented automated model monitoring and retraining pipelines using MLflow Model Registry with drift detection, enabling continuous deployment of top-performing models without manual intervention
- Engineered event-driven data infrastructure using GCP (Cloud Functions, Workflows, Eventarc) and Terraform to automate data streaming from BigQuery to Databricks

Software Engineering Intern, NCR Corporation

May 2022 – Aug 2023

- Built high-performance MVPs using Firestore, MongoDB Realm, and Flutter to migrate on-premise restaurant management features to the cloud, improving scalability and reducing operational costs
- Implemented offline synchronization and data persistence using Ditto, enabling reliable functionality for 10,000+ global restaurant locations even during network outages
- Awarded “Best Overall Project” out of 200+ interns for innovation, scalability, and business impact

Research Experience & Projects

Data to Insights Research Lab, Georgia Institute of Technology

Aug 2023 – May 2024

Research Assistant under Dr. Kexin Rong

- Co-authored and published ‘[Demonstration of VCR: A Tabular Data Slicing Approach to Understanding Object Detection Model Performance](#)’ in VLDB 2024
- Developed tabular slicing approach for object detection model debugging, combining vision foundation models with frequent itemset mining to automatically discover and semantically label failure modes at scale
- Engineered multimodal vision pipeline integrating Meta’s SAM for segmentation and DINOv2 + OpenAI CLIP for embeddings to extract thousands of visual concepts, enabling semantic search and interpretation across large-scale datasets

ShorthandAI

June 2025 – Present

- Built an end-to-end natural language to Apple Shortcuts generation tool using a multi-stage agentic LLM pipeline with Retrieval Augmented Generation (RAG), vector embeddings, and iterative compilation validation with error correction
- Constructed a large-scale dataset by scraping and reverse-engineering Apple Shortcuts collected from the web, extracting triplets (natural language intent, Domain Specific Language (DSL) code, plist/XML) to enable model fine-tuning with LoRA
- Implemented context-aware code generation by embedding DSL documentation using OpenAI text-embedding models to enable semantic search and information retrieval of relevant code examples

ChatASM

Nov 2024

- Built GPT-4-powered conversational AI interface for sales analytics with programmatic few-shot prompt generation and schema injection, enabling SQL-free data exploration; project approved for production development
- Integrated text-to-SQL pipeline with React, BigQuery, and Plotly to deliver conversational analytics for store managers querying forecasted and historical sales data

Skills

Languages: Python, C/C++, SQL, Java, JavaScript/TypeScript

ML & Data: PyTorch, TensorFlow, scikit-learn, Transformers, LangChain, Optuna, Spark, PySpark, BigQuery, Delta Lake, Pandas

MLOps & Infrastructure: MLflow, Databricks, Kubeflow, Docker, Kubernetes, Terraform, GCP, Git, GitHub