

Samin Intisar

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Summary

AI/ML Engineer with experience building production AI systems including RAG pipelines, LLM-powered agents, and end-to-end ML models. Skilled in LangChain, LangGraph, vector embeddings, and full-stack AI application development. Strong foundation in statistics and machine learning, with ability to design and ship systems that integrate multiple AI services into cohesive products.

Technical Skills

AI and Machine Learning: LangChain, LangGraph, Agentic AI, Agent Orchestration, RAG Pipelines, Retrieval-Augmented Generation, Vector Embeddings, LLM Integration, Fine-Tuning, Prompt Engineering, PyTorch (NNs, CNNs, RNNs), XGBoost, Random Forests, NLP (NLTK, spaCy), Logistic Regression

Programming and Databases: Python (Pandas, NumPy, scikit-learn, PyTorch, Matplotlib), TypeScript, R, SQL (Postgres, MySQL), Git/GitHub

Tools and Platforms: Convex, FastAPI, Streamlit, React, Jupyter Notebook, Statistical Modeling, Feature Engineering, Model Deployment, MLOps

Projects

SolomindLM | React, TypeScript, Convex, LangChain, LangGraph, RAG Website

- Architected production RAG pipeline with LangGraph agents, OpenAI vector embeddings, and Cohere cross-encoder reranking supporting multi-modal ingestion (PDF, audio, image, web) with streaming chat and citation support
- Designed LLM-powered multi-agent system (LangChain/LangGraph, Qwen3 80B) for automated content generation - reports, flashcards, quizzes, mind maps, and audio overviews from heterogeneous research sources
- Built full-stack AI application on Convex serverless backend with React 19/TypeScript frontend, integrating Mistral OCR, Tavily web search, Supadata transcript extraction, and OpenAI TTS for audio synthesis

Quant Portfolio Optimization | Python, CVXPY, XGBoost, Random Forest, FastAPI GitHub Repo

- Built end-to-end ML pipeline with Random Forest and XGBoost achieving 63.6% directional accuracy through feature engineering of 41+ technical indicators with mutual information-based feature selection reducing dimensionality by 51%
- Developed complete data pipeline with Yahoo Finance integration, walk-forward backtesting framework, FastAPI REST endpoints, and portfolio optimization using CVXPY (Mean-Variance, CVaR, Black-Litterman) with Ledoit-Wolf covariance shrinkage
- Implemented comprehensive risk analytics (Sharpe ratio, max drawdown, volatility) and realistic trading constraints with 7.5 bps transaction costs across 19 stocks

Return of Service in BC | R, tidyverse, ggplot2, Logistic/Ordinal Regression, R Markdown BC Health Research

- Conducted statistical consulting research for UBC faculty physicians on IMG retention policy in BC, as part of a 4-person team; findings scoped for submission to BC provincial health authorities
- Applied logistic and ordinal regression to Qualtrics survey data from 80+ IMG family physicians to evaluate retention, career trajectory, and well-being outcomes post-ROS obligation
- Produced 20+ publication-ready visualizations and reproducible R Markdown reports, translating statistical findings into policy-relevant recommendations for BC health workforce planning

Work Experience

Data Analyst Intern | Spintech Associates | Dhaka, Bangladesh May 2023 - August 2023

- Built and maintained Power BI dashboards to monitor sales KPIs, driving an 8% increase in revenue
- Wrote SQL queries to extract and reconcile inventory data, reducing stock discrepancies by 15% and improving demand forecasting
- Partnered with sales managers to deliver data-driven recommendations on product pricing and promotion
- Automated recurring reporting processes, improving data visibility and leadership decision-making efficiency

Education

University of British Columbia, Bachelor of Science in Statistics (GPA: 3.3) September 2021 - April 2026

Coursework: Data Analytics, Statistical Inference, Finding Relationships in Data, Statistical Modeling for Data Science, Relational Databases, Artificial Intelligence, Data Structures, Software Construction, Applied Machine Learning, Stochastic Processes

Awards & Volunteering

BC Hacks 4.0, Most Diverse Hack Award for developing an Android app. November 2022

AMS Food Bank Volunteer, Supported inventory management and client services. May 2025 - August 2025