Minzhi (Chloe) Huang

Canadian PR Application in Progress

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PROFILE:

AI Engineer with over **3 years of experience** across finance, healthcare, and education, specializing in AI-driven analytics, natural language processing, and generative AI workflows. Skilled in developing end-to-end data pipelines, machine learning models, and LLM-based automation systems **that drive product success**.

EXPERIENCE:

AI Engineer (Python, AI Workflow, Cursor), Deepcoin, Richmond, BC   06/2024 - 08/2025

- Designed and implemented AI agent workflow optimization strategies through analysis of **50K+ customer service conversations**, **customer behavior workflows** (withdrawal, deposit, trading), and internal API documents, achieving **~30% reduction** in customer query processing time. [link](#)
- Built and deployed an **automated blockchain transaction verification workflow** using **FastAPI** to support five blockchain networks, enabling real-time automated verification of token transfers and transaction status for customer support operations.
- Built two **automated knowledge optimization workflows** that extracted and processed common issues from 3 months of customer conversations into an FAQ **knowledge base**, and developed an LLM-powered web scraping system (Qwen32B) to generate high-quality help center content from competitor analysis.
- Rapidly prototyped a customer service dashboard based on **stakeholders'** needs with **40+** key **performance metrics** through cross-team collaboration, serving **~30 stakeholders** weekly and lifting CSAT/NPS by ~10% via ETL pipeline from Supabase database.
- Developed and deployed a **production AI-driven** crypto news summarization **pipeline** that automatically processed 50+ unstructured crypto articles into neat, insightful daily morning and evening briefings.
- Built a trading market analytics framework integrating modules like profit-loss tracking, trend analysis, and user behavior correlation, delivering insights for strategy optimization across multiple trading pairs.

Data Management & Analyst (SAS), Center for Heart Lung Innovation, Vancouver, BC   01/2023 - 08/2023

- Conducted population attributable risk analysis to quantify the impact of 10 risk factors on chronic obstructive pulmonary disease in Canada using Bayesian hierarchical modeling; presented findings at HLI seminar series.

Research Assistant (R), Simon Fraser University, Burnaby, BC   05/2022 - 08/2022

- Conducted Bayesian analysis for stellar evolution, applying Bayesian MCMC to infer key stellar parameters for white dwarfs, incorporating error simulations and validating results with diagnostics.

Data Analyst (R), Surrey Schools, Surrey, BC   09/2021 - 05/2022

- Conducted statistical analyses across three major district-led projects with **5,300+ participants**, employing multiple analytical approaches including **repeated-measures ANOVA**, **Wilcoxon tests**, **correlation analyses**, **regression modeling**, and qualitative coding. [link](#)

SKILLS:

Python (Pandas, NumPy, Scikit-learn, **PyTorch**, **TensorFlow**), SQL, LLM Integration, **LangChain**, **AI Workflow Platforms** (Dify, n8n), **FastAPI**, Machine Learning, **Deep Learning**, CI/CD, Huggingface, and Data Analysis.

EDUCATION:

Master of Data Science with Natural Language Processing Specialization (A)   06/2024 Graduated
The University of British Columbia   Vancouver, BC
Coursework: Trends in NLP, Deep Learning, Topic Modelling for Financial Documents (Capstone Project with [BCI](#))

Bachelor of Science in Statistics with Co-op Program   08/2023 Graduated
Simon Fraser University   Burnaby, BC