Sina Ghanbari Saheli

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Summary

First-Class Master's graduate in **Computer Science with Artificial Intelligence**, currently undertaking a **6-month AI Internship at Sirio Strategies**. I contribute to an AI start-up product used by major **UK Energy Networks**, working closely with the **Machine Learning team** to refine and test key features. My experience spans **financial markets, healthcare, and customer insights**, where I have applied **machine learning** and **software development** to build full-stack, user-friendly applications. I also design **wireframes, graphics, and presentations** using Figma and video editing tools to communicate ideas effectively. For more details, please visit my **portfolio**!

Education

University of Leeds

Sep 2019 – Jun 2024

MEng, BSc: Computer Science with Artificial Intelligence (**First Class Honours**)
*Key Modules: Web Services & Web Data (**89%**), Deep Learning (**78%**), Algorithms & Data Structures (**78%**)*

Bolton School Sixth Form

Sep 2016 – Jun 2018

A Levels: Maths (**A**), Chemistry (**A**), Biology (**B**)

Experience

Sirio Strategies, AI Internship

Jan 2025 – Present

- Collaborated with the senior machine learning team to refine an **Ingestion Tool** for processing thousands of high-profile client documents and enhancing a **RAG Chatbot**.
- Developed and tested AI pipelines using **Python**, **Excel**, and **Gradio** to streamline workflows and improve performance.
- Utilised the **Selenium** library to automate chatbot testing and extract results into structured spreadsheets.
- Integrated new AI libraries such as **Docling** for advanced **text and image extraction**, supporting the next-generation ingestion tool.

Projects

Utilising Generative AI for Financial Market Dynamics (2024)

- Developed a **Generative Adversarial Network (GAN)** to simulate synthetic Limit Order Book data for financial trading scenarios.
- Achieved a high grade of **86%** for this Master's project, reflecting its technical quality.
- Integrated synthetic data into a **C++** trading platform to support realistic strategy testing and mitigate overfitting risks.

AI-Powered Android Health Application (2023)

- Developed a mobile app utilising **Convolutional Neural Networks (CNNs)** and **Computer Vision** for urine dipstick test analysis.
- Achieved **92% accuracy** using custom testing scripts and machine learning algorithms.
- Enhanced at-home diagnostic reliability by providing disease risk assessments and tailored health recommendations.

Technical Skills

Programming Languages: Python (most proficient), C++, Java, Ruby, SQL

Libraries/Tools: TensorFlow, PyTorch, Keras, OpenCV, SciKit-Learn, Weights & Biases, Gradio, Selenium, Docling, Beautiful Soup, Pandas, NumPy

Other Tools: Git, Figma, Android Studio

Languages: English, Farsi (bilingual)