Sina Ghanbari Saheli

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Summary

I am a **First-Class Master's** graduate in **Computer Science with Artificial Intelligence** from the **University of Leeds**, with experience in projects spanning financial markets, healthcare, and customer insights. I have applied **machine learning** and **software development** to create full-stack, user-friendly applications. Leveraging tools like Figma and video editing software, I also design engaging wireframes, graphic assets, and presentations to effectively communicate ideas. For more, please visit my portfolio linked above.

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**)

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, chosen for its multi-threading capabilities and fast processing speeds, to support realistic strategy testing and identify overfitting risks.

AI-Powered Android Health Application (2023)
- Developed a mobile app using **Convolutional Neural Networks (CNNs)** and **Computer Vision** for Urine Dipstick test analysis.
- Earned a **First Class grade** for this Bachelor's project, achieving accuracy levels of **92%** using a custom testing script that generated random urine dipstick pad possibilities.
- Enhanced at-home diagnostic reliability by providing disease risk assessments and tailored health recommendations.

Loan Approval Prediction Model (2024)
- Built a loan approval prediction model as a personal project using a Kaggle dataset, achieving a best accuracy of **91.11%** when testing algorithms such as Logistic Regression, Random Forest, and KNN.
- Created a user-friendly loan form application with **Streamlit** to test and demonstrate the models.

Certifications

British Airways Data Science Job Simulation (2024)
- Used **BeautifulSoup** to scrape customer reviews and performed **sentiment analysis** to identify drivers of poor customer satisfaction.
- Built a predictive Random Forest model (**85% accuracy**) to determine booking completion
- Created Python visualisations to identify key factors, like lead time and departure hour, and recommended early booking promotions to boost completion rates.

Achievements

Computer Science Course Representative (2021 – 2024)
Bridged the gap between students and professors by proactively resolving challenges and relaying constructive feedback to different parties

Korfball Social Media Secretary (2023 – 2024)
Created engaging content for a **100+** member society, promoting the sport and communicating key updates to the team and university. Represented the University of Leeds at BUCS and international tournaments, showcasing commitment on and off the court!

Technical Skills

Languages: Python (*Most Proficient*), C++, Java, Ruby, SQL
Libraries/Tools: TensorFlow, PyTorch, Keras, OpenCV, SciKit-Learn, Weights & Biases, Beautiful Soup, Pandas, NumPy
Other Tools: Git, Figma, Android Studio
Languages: Bilingual (English & Farsi)