

Skilled in building and deploying scalable models on Azure and AWS. Proficient in Python, PyTorch, TensorFlow, and SQL, with expertise in NLP, computer vision, recommendation systems, and data-driven problem-solving.

SKILLS

Programming	Python, SQL, Bash, Java
Frameworks	PyTorch, TensorFlow
Cloud Platforms	Microsoft Azure, AWS, Google Colab, Databricks
Tools & Visualization	Streamlit, Tableau, Power BI, Matplotlib, Seaborn, Docker, Git, Jenkins

EDUCATION

Master of Computer Science, The University of Glasgow	Expected Sep 2025
Bachelor of Software Engineering, Beijing Jiaotong University   UK 2:1 Equivalent	2020 — 2024
Relevant Coursework: Machine Learning & AI, Data Science and Systems, Big Data, Deep Learning	

WORK EXPERIENCE

Machine Learning Intern	Jan 2024 — Jun 2024   Beijing, China
CNBM Information Technology Co., Ltd.	
<ul style="list-style-type: none"><li>Improved data cleaning efficiency by 30% through SQL optimization and managing 500GB+ of industrial data.</li><li>Engineered features like power-output ratio, rolling mean energy, and peak-hour flags to improve model accuracy.</li><li>Developed machine learning models (Random Forest, XGBoost) for energy consumption and cement production forecasting, increasing AUC from 0.75 to 0.85. Optimized power allocation, reducing energy waste during low production and preventing shortages during peak demand.</li><li>Built KPI dashboards using Matplotlib and Seaborn, enhancing decision-making across departments.</li></ul>	
Data Scientist Intern	Jun 2023 — Dec 2023   Beijing, China
ByteDance	
<ul style="list-style-type: none"><li>Designed real-time dashboards to monitor key ad metrics (PV, UV, conversion rates) during promotions, assessing strategy impact and detecting issues. Improved click-through by 5% and conversion by 3% via A/B testing.</li><li>Built churn prediction model (XGBoost) to detect at-risk users, achieving F1 score of 0.82 and reducing churn by 8%. Enabled proactive retention strategies, such as targeted promotions and personalized recommendations.</li><li>Conducted user traffic analysis during promotions, increasing active users by 7% and ARPU by 2%.</li></ul>	

PROJECTS

Sentiment Analysis using NLP and LLMs   GitHub	Jun 2024 — Aug 2024
<ul style="list-style-type: none"><li><b>Model Development:</b> Fine-tuned a BERT-base-Chinese model (Hugging Face) for sentiment analysis on 30,000+ user reviews, achieving 92% accuracy and an F1 score of 0.89.</li><li><b>Cloud Deployment:</b> Built a Streamlit-based web interface, containerized with Docker, and deployed on Azure and AWS for real-time API sentiment analysis.</li></ul>	
Intelligent Food Recommendation System   GitHub	Mar 2024 — May 2024
<ul style="list-style-type: none"><li><b>Algorithm Optimization:</b> Designed recommendation algorithms to improve user retention rate from 65% to 75%.</li><li><b>Search Optimization:</b> Increased query accuracy from 70% to 85%, reducing response time to 5 seconds.</li><li><b>Data Insights:</b> Utilized Plotly to develop dashboards for analyzing user trends and identifying high-spending users.</li></ul>	
Breast Cancer Histopathology Diagnosis   GitHub	Sep 2024 — Dec 2024
<ul style="list-style-type: none"><li><b>Model Development:</b> Fine-tuned a DenseNet121 model for multi-class classification of breast cancer histopathology images, achieving 95% accuracy.</li><li><b>Deployment:</b> Built Streamlit web application for real-time image upload and diagnosis, improving user accessibility.</li></ul>	

CERTIFICATIONS

DP-100, DP-203 (Azure Certifications), IBM Data Science Professional Certificate, Google Analytics, IELTS 8.0  
Proficient in deploying machine learning models, designing scalable solutions, and building end-to-end data pipelines using Azure services such as Machine Learning, Data Factory, and Databricks.

INTERESTS

- Passionate about music, I analyze Spotify listening data, using clustering techniques on personal history to generate tailored playlists, and exploring global trends through Tableau data visualization. Explore My Visualizations
- Enjoy hiking and jogging, particularly in the morning, which enhances my resilience and goal-oriented mindset.