

Skilled in building end-to-end data solutions and deploying models on Azure and AWS. Proficient in Python, SQL, and ML frameworks, with expertise in statistical analysis, NLP, recommendation systems, and data-driven decision-making.

SKILLS

Programming	Python, SQL, Bash, Java
Frameworks	PyTorch, TensorFlow, MapReduce, Apache Spark
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

Research Intern	Mar 2025 — Present Glasgow, UK
University of Glasgow	

- Analyzed and visualized data transmission paths in IoT systems, enabling reliable upstream/downstream data flow to support data modeling and analytics.
- Developed a real-time dashboard with Grafana and InfluxDB for visualizing GPS data from LoRaWAN-based drones delivering medicine in remote mountain regions.

Machine Learning Intern	Jan 2024 — Jun 2024 Beijing, China
CNBM Information Technology Co., Ltd.	

- Improved data cleaning efficiency by 30% through SQL optimization and managing 500GB+ of industrial data.
- Engineered features (power-output ratio, rolling mean energy, peak-hour flags) to boost model performance.
- Built energy and production forecasting models (Random Forest, XGBoost), increasing AUC from 0.75 to 0.85, enabling smarter power allocation and reduced energy waste.
- Built KPI dashboards using Matplotlib and Seaborn, enhancing decision-making across departments.

Data Scientist Intern	Jun 2023 — Dec 2023 Beijing, China
ByteDance	

- 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.
- 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.
- Conducted user traffic analysis during promotions, increasing active users by 7% and ARPU by 2%.

PROJECTS

Sentiment Analysis using NLP and LLMs GitHub	Jun 2024 — Aug 2024
<ul style="list-style-type: none">Model Development: Fine-tuned a BERT-base-Chinese model on 30,000+ user reviews for sentiment analysis, achieving 92% accuracy and F1 score of 0.89.Cloud Deployment: Deployed a Streamlit app with Docker, hosted on Azure and AWS for real-time API-based sentiment analysis.	

Breast Cancer Histopathology Diagnosis GitHub	Sep 2024 — Dec 2024
<ul style="list-style-type: none">Model Development: Fine-tuned DenseNet121 for multi-class classification of breast cancer images, achieving 95% accuracy.Deployment: Built Streamlit web application for real-time image upload and diagnosis, improving user accessibility.	

Financial Asset Ranking with Spark	Feb 2025 — Apr 2025
<ul style="list-style-type: none">Designed a Spark pipeline in Java using MapReduce-style transformations to rank financial assets from 24M+ US stock records.Delivered top-5 investment recommendations via scalable batch analytics and efficient distributed filtering.	

Spotify Listening Analysis with Tableau Explore My Visualizations	
Explored personal listening behavior using clustering to generate playlist recommendations; visualized global trends.	

NHS Healthcare Dashboard with Power BI Explore My Visualizations	
Built a dashboard analyzing NHS Scotland patient flow and hospital efficiency to uncover service bottlenecks.	

CERTIFICATIONS

DP-100, DP-203 (Azure Certifications), IBM Data Science Professional Certificate, AWS Certified Cloud Practitioner
Google Data Analytics, IELTS 8.0 (fluent), Chinese(native)