Christopher Joshua (Mr.)

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Profile Summary

An analytical, objective, and communicative data science graduate student from the University of Sydney, who is confident in solving any kind or any form of problem with a logical approach and positive attitude. Described as a persuasive communicator with the ability to communicate complex ideas clearly to different types of audiences and stakeholders. Consistently learning new things in both technical and soft skills. Most recently worked as a business data analyst at Bank Central Asia (BCA). Known for being fun, approachable, and able to get along with all kinds of people, bringing both professionalism and warmth to any team or setting.

Professional/Technical Skills

- **Python** (NumPy, Scikit-learn, Pandas, Tensorflow, Keras, SpaCy, Spark)
- **R**
- **SQL** (PostgreSQL, SQL Server)
- **C++**
- **Git**
- **Selenium**
- **Docker**
- **Tableau**
- **Microsoft Power BI**
- **ReactJS**
- **Amazon Web Service**

Work Experience

Business Data Analyst – Assistant Officer   2020 – 2024
Bank Central Asia

- Analyzing user's needs through SCRUM team communication, exploration and data analysis. Insights gained from needs identification are translated into requirements or functional specifications document (FSD).
- Extracting data from SQL database and creating data pipelines using Python for quarterly reports.
- Create user interface mockup using Axure and Adobe XD.
- Design entity relationship diagram for projects' database.
- Create dashboard for project presentation and SCRUM team quarterly achievements using Power BI.
- Create test cases and automate repetitive cases using Selenium.
- Presenting products to shareholders and teams for future innovation.

Projects

Context-Aware Health Assistant Chatbot - Gemini Powered

- Creating my own RAG system and vector database to provide real-time health assitance based on user queries.
- Implemented BERT embeddings to encode medical documents with pointers for efficient retrieval.
- Integrated knowledge graphs for context and provide chatbot with official government approved medical knowledge
- Fine-tuned the RAG pipeline to ensure relevance, boundaries, factual accuracy and compliance with government policy. Making sure the chatbot provides educational content only, not giving diagnoses or prescriptions.
- Engineered traceability of information retrieval from the vector database to ensure trustworthiness.
- Deployed the chatbot onto a Django-based website using free-tier AWS services (EC2, S3, and RDS).

RSSI-Based Indoor Positioning System for Warehouse Asset Tracking

- Developed an RSSI-Based Indoor Positioning System for warehouse asset tracking using Wi-Fi signals from 520 Wireless Access Points (WAP).
- Trained and select a model to predict X Y coordinates from raw RSSI data with high accuracy low error.
- Engineered a data pipeline from the IoT team's WAP using AWS IoT Core & Lambda for the mobile app team.
- Evaluated system performance by latency (update frequency), mean squared error (MSE).

Education

University of Sydney   2024 – 2025
Master of Data Science
Specializes in machine learning and visual analytics with hands-on experience in data pre-processing, model training, model testing, hyperparameter tuning, cloud computing and database management.

Airlangga University   2015 – 2019
Bachelor of Mathematics
Specializes in mathematical modelling and computer programming. Adept in areas such as network, operational research, statistics, business mathematics.