

Luan Tran

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Experience

- **CapstoneBara**
Co-Founder
Sydney, Australia
08/2024 - Present
Developed a digital platform for mental well-being and health management, integrating:
 - AI assistant (Bara) for emotional support & advice.
 - Health dashboard, appointment tools, and doctor snapshot.
 - Private diary, mental health quizzes, and curated news.**Achievements:** Launched a unified platform improving access to mental health resources and proactive care.
- **Skwill AI**
Data Science Intern
Sydney, Australia
05/2024 - 03/2025
Led team to add **GPT-4o** feature for sales coaching & info retrieval.
 - Analyzed user logs with **Pandas/SQL**, boosting satisfaction **15%**.
 - Built **Python** and **SQL** data-quality scripts, reducing errors **20%**.
 - Developed **Power BI** dashboards on **session length** & **conversion rate**.
 - Automated **ETL** to **Snowflake** with **Airflow**, cutting manual pulls **50%**.**Achievements:** Improved assistant accuracy **12%** via feedback loop.
- **S P Jain school of Global Management**
Research Assistant – Data Analyst (Prof. Bilal Bahaa Zaidan)
Sydney, Australia
01/2025 - 05/2025
Supported Prof. Zaidan in developing **ML models** for fall-risk classification detection in older adults.
 - Preprocessed sensor, survey, and clinical data in Python.
 - Conducted **EDA** & **feature selection**, applied **SHAP** for interpretability.
 - Evaluated models with **stratified k-fold**, tracking **accuracy**, **recall**, **AUC**.**Achievements:** Boosted model accuracy **15%** through iterative tuning.

Education

- **Western Sydney University**
Master by Research (Computer Vision & Data Processing)
Sydney, Australia
- **S P JAIN School of Global Management**
Bachelors of Data Science — Dean's List for 4 consecutive semesters
Sydney, Australia
Graduated, May 2025

Certificates

- Databricks **Lakehouse** Fundamentals, **AWS** Certificated Cloud Practitioner, **Power BI** Data Analyst Associate(Microsoft Certified), **SQL (Advanced)** (HackerRank), **Data Engineer** Certificate (DataCamp), Top 100 **Shopee** Code League Finals (2022)

Technical Skills

- **Data Engineering & Analytics:** Python, SQL, R, NoSQL, Power BI, Tableau, Databricks, Airflow, Snowflake, PostgreSQL, Spark SQL, MongoDB
- **Tools & Technologies:** AWS, GCP, Docker, CI/CD, Git, Scikit-learn, Langchain, Hugging Face, MLflow, PyTorch.

Personal Projects

- **AI Digit Recognition Application**
(<https://truongluan1202.github.io/AI-Digit-Recognition-Application/>)
Neural Network, C++, CSS, HTML, JavaScript, Canvas.
 - Created an AI tool for digit recognition using a **CNN** trained on the **MNIST dataset** with **95% accuracy**.
- **University Enrollment System**
(https://github.com/truongluan1202/NoSQL_University-Enrollment-System-.git)
PostgreSQL, Python
 - Designed a **Relational Database** with **procedures**, **views**, **triggers** to manage enrolments & capacity.
 - Automated tests in **Python** to handle edge cases (course full, duplicates, invalid IDs), visualize real-time DB changes.
- **Sports Analytics NoSQL Database**
(<https://github.com/truongluan1202/Sports-Analytics-NoSQL-Database.git>)
MongoDB, Python
 - Built database for **6** European leagues with **5** interconnected collections (teams, players, matches, shots)
 - Ingested **1,900+** shot events via **ETL** pipelines; solved issues with inconsistent types, player transfers, and duplicates.
- **Energy Usage Prediction**
(<https://github.com/truongluan1202/ML-Energy-Usage-Prediction-of-Steel-Industry.git>)
Python, Jupyter, Scikit-learn, Matplotlib.
 - Built **ML pipeline** for steel industry energy usage, achieving **MSE 5.5** with **RandomForest**.
 - Optimized via clustering, scaling, one-hot encoding, and **k-fold** cross-validation.