

Cedrus Dang

Data Scientist

- 0493 950 075 • cedrusdang@gmail.com • Perth 6062

Professional Summary

Skilled in AI-driven Python development and data engineering with hands-on experience in designing and implementing scalable pipelines. Expertise in machine learning, deep learning, and system integration to enhance efficiency and reduce costs. Seeking to leverage these skills as a Machine Learning Engineer to drive innovation and optimize performance in cutting-edge projects.

Experience

AI & SYSTEMS DEVELOPMENT INTERN

Captivate Connect

Jun 2025 – Sep 2025

- Designed and implemented an internal AI-driven Python audio processing pipeline using API-first architecture, replacing a third-party AI vendor solution and significantly reducing operational costs.
- Developed backend services and integration documentation to support scalable SaaS and API deployments in production environments.
- Improved system reliability and maintainability by streamlining deployment processes, AI inference workflows, and internal tooling.
- SaaS and API-driven audio and communication platforms

DATA MIGRATION INTERN

Law Access Limited

Mar 2025 – May 2025

- Migrated and restructured over 10 years of legacy data into a new SQL-based system, improving data clarity, usability, and governance.
- Automated data transformation and validation workflows using SQL, shell scripting, and Excel VBA, reducing manual processing effort by approximately 70%.
- Built lightweight internal tools to support operational teams and accelerate data handling processes.
- Legal services and public access to justice

OPERATIONS TEAM LEADER

DHL Supply Chain

May 2022 – Aug 2023

- Led a 40+ member operations team across B2B and B2C fulfilment, achieving 95% on-time order fulfilment under strict SLA and KPI requirements.
- Supported e-commerce launch and WMS implementation, contributing to operational efficiency and site-level profitability.

ASSISTANT OPERATIONS MANAGER

T&C Logis Vietnam - Korean-Vietnam Logistic Co.

Oct 2019 – Jan 2022

- Coordinated warehouse operations, staff training, and vendor communication for multinational clients, ensuring operational continuity during rapid growth and COVID-19 disruptions.

BUSINESS OPERATIONS ANALYST

Hoa Sen Group

Nov 2018 – Sep 2019

- Supported business analysis, contract tracking, and operational reporting during national retail network restructuring at HQ level.

- Contributed to management decision-making by delivering analytical summaries and operational insights supporting store network optimisation initiatives.

Education

MASTER OF SCIENCE (M.S.) in DATA SCIENCE

Dec 2025

The University of Western Australia

GPA: 6

BACHELOR OF ECONOMICS in ENVIRONMENTAL ECONOMICS

Nong Lam University

Skills

- Programming languages: Python, R, SQL, JavaScript, Bash
- Systems and infrastructure: REST APIs, Docker, Django, Flask, Next.js, AWS services, GitHub
- Machine learning and AI: Deep learning, NLP, computer vision, AI agents, multi-agent systems, Scikit-learn, TensorFlow, PyTorch, LangChain
- Analytics and visualization: Statistical analysis tools, Power BI, Tableau
- Data engineering and databases: ETL processes, data warehousing, migration and validation, PostgreSQL, MySQL, Neo4j

Selected Projects

- Explainable Natural Language Query Interface (Multi-Agent System):** Built an AI system for natural language SQL querying using multi-agent reasoning, RAG-based schema understanding, and explainable query generation. Implemented as a full-stack application with Python, LangChain, Django REST, Next.js, SQL, and Docker.
- Image Classification using CNNs and MobileNetV3-Small:** Developed and evaluated deep learning image classification models using CNN architectures and MobileNetV3-Small, focusing on model efficiency, accuracy, and performance benchmarking.
- Queensland Traffic Accidents Analysis (2001-2021):** Conducted large-scale data analysis and data storytelling on long-term road accident trends, uncovering behavioural and policy-relevant insights using Python and Tableau.
- Data Warehouse Project - Australian Road Fatalities 2024:** Designed a dimensional data warehouse using Kimball methodology, implemented ETL pipelines, and built OLAP-ready models and Power BI dashboards for multidimensional analysis.
- Smart Livestock Tracking System (IoT):** Built an end-to-end IoT tracking system integrating GPS, LoRaWAN, embedded devices, and AWS IoT Core, achieving up to 50 days battery life and 99% outdoor GPS accuracy.

Publications

- Dang T.T., Dang M.P., Mai D.Q. (2018). The awareness and willingness to pay of consumers for imported fruits with food safety certification. *Journal of Agricultural Science and Technology*, No.1/2018.
- Mai D.Q., Pham T.P., Le N., Pham T.T.C., Dang T.T., Chau T.L. (2018). Analysis of Water Use Efficiency in Grape Farming in Ninh Thuan Province. *Journal of Agricultural Science and Technology*, No. 2/2018.

Additional Information

- LinkedIn:** linkedin.com/in/cedrusdang | **Portfolio:** cedrusdang.com | **Github:** <https://github.com/cedrusdang>