

# Cedrus Dang

## Data Scientist

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### Professional Summary

**Data Science professional** with a strong focus on **AI-driven machine learning** and **production-ready data systems**. Experienced in **designing and deploying end-to-end solutions** across **NLP, AI agents, data engineering pipelines, data warehousing, and IoT** using **Python, SQL, cloud platforms, and modern ML frameworks**. Background spans both **large-scale operations and advanced data systems**, enabling a balanced approach to **scalability, reliability, and measurable business impact**.

### Experience

#### AI & SYSTEMS DEVELOPMENT INTERN

Jun 2025 – Sep 2025

Captivate Connect

- **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**.

#### DATA MIGRATION INTERN

Mar 2025 – May 2025

Law Access Limited

- 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**.

#### OPERATIONS TEAM LEADER

May 2022 – Aug 2023

DHL Supply Chain

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

#### ASSISTANT OPERATIONS MANAGER

Oct 2019 – Jan 2022

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

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

#### BUSINESS OPERATIONS ANALYST

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

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

Dec 2025

The University of Western Australia

WAM: 75 - GPA: 6/7

### BACHELOR OF ECONOMICS in ENVIRONMENTAL ECONOMICS

Nong Lam University

## Skills

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- **Languages:** Python, R, SQL, JavaScript, Bash
- **Data Science:** Machine Learning, Deep Learning, NLP, computer vision, AI agents, Scikit-learn, TensorFlow, PyTorch
- **Systems and infrastructure:** REST APIs, Docker, Django, Flask, React, AWS services, GitHub
- **Analytics and visualisation:** Power BI, Tableau
- **Data engineering:** ETL processes, data warehousing, PostgreSQL, MySQL, Neo4j

## Selected Projects

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- **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

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- 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.