

Cedrus Dang

Data Scientist

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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

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.
- SaaS and API-driven audio and communication platforms

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.
- Legal services and public access to justice

OPERATIONS TEAM LEADER

May 2022 – Aug 2023

DHL Supply Chain

- 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

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

Hoa Sen Group

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

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](https://www.linkedin.com/in/cedrusdang) | **Portfolio:** cedrusdang.com | **Github:** <https://github.com/cedrusdang>