

Thida An

chakriyathida@gmail.com | Melbourne, Victoria
[linkedin.com/in/thidaan](https://www.linkedin.com/in/thidaan) | github.com/chakriyathida

Career Profile

Second-year Bachelor of Data Science student at Deakin University with hands-on work in sensor data capture, data cleaning, feature engineering and machine learning, taken from raw data to checked findings. Coding mentor at Digimaker, teaching programming to school students across Victoria, and tutor to students from Year 1 to Year 9. Experienced in explaining technical ideas to non-technical audiences after facilitating workshops for more than 1,000 young people. Working towards a data science career that improves outcomes in education and health.

Technical Skills

Programming: Python (pandas, NumPy, scikit-learn, Matplotlib, Plotly Dash, TextBlob), SQL (MySQL), R, C#, HTML, CSS, JavaScript (foundational)

Machine Learning: Classification, linear and logistic regression, random forest, PCA, K-Means clustering, ensemble methods, sentiment analysis

Feature Engineering: Interaction and polynomial features, Box-Cox and Yeo-Johnson transforms, correlation analysis, permutation importance, data leakage checks

Data Capture & IoT: Arduino (Nano 33 IoT), DHT22 sensors, serial data logging, Arduino IoT Cloud, Firebase, YouTube Data API

Tools & Platforms: Jupyter, Git/GitHub, Jenkins (CI/CD), Wireshark, SPSS, Advanced Excel (PivotTables, Power Query), Google Sheets, Notion

AI Tools: LLM workflows and agents, LLM-assisted data exploration in Python and SQL, Lovable prototyping

Projects

Room Humidity & Mould-Risk Monitoring | Data Capture Technologies Unit

Arduino Nano 33 IoT, DHT22, Python, pandas, Firebase · 2026

- Built a sensor-to-Python pipeline logging temperature and humidity every 2 seconds, then cleaned a 20-minute session into 598 readings. Humidity peaked at 62.6% against a 60% mould-risk threshold before recovering.
- Ran a multi-day capture beside a bathroom, streaming readings over WiFi to Firebase and merging the individual CSV files into one dataset. Traced sudden humidity drops to door and window openings instead of treating them as sensor faults.

Live Sensor Streaming Dashboard | Data Capture Technologies Unit

Python, Plotly Dash, Arduino IoT Cloud · 2026

- Built a reusable `smooth_graph()` wrapper that streams smartphone accelerometer data into a live Plotly Dash chart without full redraws, using a thread-safe buffer drained at 10 frames per second and a moving x-axis window.
- Reused the wrapper on a temperature and humidity stream to prove it works beyond one sensor, with a before-and-after notebook showing the smoother updates.

Data Wrangling Portfolio | Data Wrangling Unit

Python, pandas, scikit-learn, Jupyter · High Distinction

- Cleaned, joined and analysed real public datasets including Myki tram patronage, NHANES public health records and cryptocurrency prices, then predicted New York City taxi tips with a random forest model.

News Channel Sentiment Analysis | Python data science project

Python, YouTube Data API, pandas, TextBlob, Matplotlib

- Collected YouTube videos and comments about Covid-19 from Fox News, BBC News, CNN and Sky News Australia through the YouTube Data API, then cleaned them in pandas.
- Scored comment sentiment with TextBlob and compared monthly sentiment across the four channels in stacked bar charts.

Experience

Digimaker | Coding Mentor | Melbourne, VIC | Sep 2026 to Present

- Teach five weekly one-hour coding classes for school students across Victoria, moving learners from block-based coding to Python, JavaScript and Raspberry Pi projects at their own level.
- Write and deliver a weekly lesson script for a partner school, live-coding the base project on a projector and explaining every line. Reworked the lesson flow after Week 2 when upfront explanations crowded out the quiz, moving the project demo first.
- Send the classroom teacher a written report after each session covering the concept reviewed, project progress and challenges completed.
- Contribute to backend development on Digimaker's learning management system (LMS).

Education Space | Maths and Writing Tutor | Blackburn North, VIC | Aug 2026 to Present

- Tutor students from Year 1 to Year 9 one to one and in small groups, planning each session around the student's gaps, strengths and interests.
- Cover other tutors' classes at short notice, picking up session plans for students met for the first time.

STEM Mentor, In2science | Maths and STEM Mentor | Westall, VIC | July 2026 to Sep 2026

- Mentor a Year 9 mathematics class of over 20 students one day per week alongside the classroom teacher across lessons, practical activities and exam preparation. Provide one to one support to approximately 15 students.

DeakinTALENT, Deakin University | Career Ambassador | Burwood, VIC | Feb 2026 to Oct 2026

- Gave one-to-one, advisor-style support to students seeking part-time, casual and volunteer work, using the Goals, Reality, Options and Wills coaching model. Named Ambassador of the Month in April 2026 and invited onto a student panel with country managers.

Deakin College | Senior Student Learning Mentor | Burwood, VIC | Oct 2024 to Oct 2025

- Supported Diploma of IT students with coursework and study skills, and helped run high-volume orientation sessions for new cohorts.
- Represented Deakin College at the TEQSA Conference 2025, covering assessment reform, data transparency and ethical AI in student data reporting.

Education

Bachelor of Data Science | Deakin University, Burwood | Jun 2024 to Jul 2027 (expected)

- Relevant units: Machine Learning, Data Capture Technologies, Feature Generation and Engineering, Data Wrangling, DevOps, Object-Oriented Programming
- High Distinction as team leader of a sprint-based group project in Professional Practice in IT

Diploma of Information Technology | Deakin College, Burwood | Completed 22025

Certifications and Awards

- **Top 3 finalist**, Vape Free Uni Multi-University Hackathon (VicHealth), one of 20 Deakin students selected | Sep 2026
- **Certifications:** Deakin SME Seed-AI
- **Working With Children Check** (current)