

Sydney, NSW
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Dhruv Lawaniya

ML Engineer / Data Scientist

Portfolio : [dhruvlawaniya.github.io](https://github.com/dhruvlawaniya)
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SUMMARY

ML Engineer who likes shipping models, not just training them. I've built audit pipelines processing data for 100+ enterprise clients, trained CV models for disease detection, and turned lecture slides into auto-generated exams — currently sharpening that at the University of Sydney, where I focus on the unglamorous parts of ML that make it actually work in production.

SKILLS

Programming: Python, Scala, SQL, Java, C/C++

Machine Learning: PyTorch, TensorFlow, Scikit-learn, Model Evaluation, Feature Engineering, NLP, Computer Vision

Data Engineering & MLOps: Apache Spark, Spark-SQL, Data Pipelines, Docker

Cloud & Platforms: AWS, Google Cloud, Databricks

Data Visualization: Tableau, Power BI, Matplotlib, Seaborn

Tools: Git, Jupyter Notebook, VS Code

WORK EXPERIENCE

ML Engineer

07/2026 – 11/2026

CMU Capstone, Sydney

- Built and evaluated ML models end-to-end for a real-world capstone problem, from data preparation through deployment.
- Applied model evaluation and iterative tuning to improve performance against project benchmarks.

Data Scientist

05/2023 – 05/2024

Deloitte India

- Designed and deployed scalable Scala-Spark pipelines processing audit datasets across 100+ enterprise clients, ensuring 100% compliance accuracy.
- Built Python-SQL anomaly detection frameworks and executive Tableau/Power BI dashboards, cutting manual audit effort and turnaround time.

Data Scientist

11/2022 – 04/2023

BSSS, India

- Analysed business data to identify trends and built predictive models supporting key decision-making.
- Delivered insights that informed strategic planning across the organisation.

EDUCATION

Master of Computer Science (Advanced Entry)

02/2025 – Present

University of Sydney, Sydney, Australia

- Specialisations: Data Science and AI, Cybersecurity
- WAM: Distinction(81)

Bachelor of Technology – Computer Science Engineering, Bennett University

2020 – 2024

Greater Noida, India

CGPA: 9.16

PROJECTS

ATIS Natural Language to SQL System

- Built an end-to-end NL-to-SQL system on the ATIS dataset, comparing feedforward neural networks, sequence tagging, and LLM prompting (zero/few/many-shot) using Python and PyTorch.

Jade – ML-Based Home Gardening Assistance Platform

- Trained CV models for plant disease detection and built a Node.js backend to serve ML inference in a production-ready web app.

CIFAR-10 Image Classification Comparison

- Benchmarked PCA+SVM, MLP, and CNN approaches on CIFAR-10; tuned CNN reached 74.6% test accuracy, roughly double the best classical baseline.

GridPulse – Real-Time Electricity Grid Visualisation

- Built a Python/MQTT pipeline streaming live NEM power, price, and emissions data to an interactive live map of Australia's grid.

EXTRA CURRICULAR

PG Connect Advisor

University of Sydney

- Assisted postgraduate students with academic transition, networking, and campus integration.