

Summary

I'm a Machine Learning Engineer who loves building ML platforms, designing ML pipelines and tackling all sorts of technical challenges. I enjoy making machine learning smoother and building awesome systems.

Experience

Ericsson

Machine Learning Engineer

Feb 2021 - Present

Sydney, New South Wales, Australia

- Implemented an enterprise ML Platform on Google Cloud Vertex AI and Google Kubernetes Engine
- Designed and deployed MLOps pipelines using Vertex AI/kubeflow pipelines for standardising model development, evaluation and deployment
- Trained object detection models using PyTorch and TensorFlow to automate document and image identification
- Deployed LLM workflows for document and image processing
- Established CI/CD workflows for ML model development, validation, and production deployment
- Engaged in university engagement programs as technical owner including organising datathons and industry partner for university subjects

Agtuary

Data Scientist

Jul 2020 - Feb 2021

Melbourne, Victoria, Australia

- Engineered end-to-end data processing pipelines for satellite imagery analysis at scale
- Developed noise reduction techniques for satellite image processing, improving data quality
- Designed and implemented ML models to predict agricultural yield from geospatial data
- Refactored processing functions into maintainable Python packages following software engineering best practices

Education

RMIT University

Data Science

2019 - 2020

Master of Data Science

- Graduated with Distinction (3.9/4.0)
- Relevant coursework: Machine Learning, Deep Learning, Cloud Computing, Data Structures & Algorithms
- Capstone Project: Built data pipelines and trained gradient boosting models for agricultural yield prediction using satellite imagery

RMIT University

Electronics and Electrical Engineering

2013 - 2018


Bachelor of Engineering

- Focus: Computer Engineering
- Capstone Project: Developed IoT GPS device with RFID for precision timing in sporting events using C# and Python

Projects


home-ops

Kubernetes + GitOps running on my own home

 <https://github.com/solanyn/home-ops>

bps

Prefect workflows deployed on my kubernetes cluster at home

 <https://github.com/solanyn/bps>

Volunteering

RMIT

Career Mentor

May 2021

Skills

MLOps

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kubeflow, prefect, kubernetes

GitOps + IaC

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fluxcd, terraform, opentofu

Programming

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python, javascript, go, rust

Machine Learning

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scikit-learn, tensorflow, pytorch, jax

Data

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matplotlib, pandas, numpy, polars, dask, spark

Certifications

Machine Learning Engineering for Production (MLOps) Specialization


DeepLearning.AI

 <https://www.coursera.org/account/accomplishments/specialization/6846AV4L82TL>

Dec 2023

TensorFlow: Advanced Techniques Specialization


DeepLearning.AI

 <https://www.coursera.org/account/accomplishments/specialization/VUX9F9TGFFCT>

Jan 2024

Google Cloud Big Data and Machine Learning Fundamentals

Coursera

 <https://www.coursera.org/account/accomplishments/certificate/Z3Q7WXGZNETW>

Apr 2022