

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>


TensorFlow: Advanced Techniques Specialization

DeepLearning.AI

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

Google Cloud Big Data and Machine Learning Fundamentals

Coursera

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