PENG HAO

⌂ https://www.linkedin.com/in/peng-hao-phd

📞 +61416125616   ✉ haopengbuaa@gmail.com   ⓞ https://github.com/transferhp

Experience

Slalom Build   Sydney, AU
Machine Learning Architect   May. 2022 – Present

- Architected and developed a scalable, reproducible model training pipeline on AzureML for a transportation client, addressing complex object detection challenges.
- Designed and deployed a serverless Generative AI solution on AWS for a legal client, significantly enhancing productivity in analyzing customer survey data.
- Delivered a comprehensive end-to-end MLOps solution for a manufacturing client using AWS SageMaker and GitHub Actions, leveraging Terraform for automated infrastructure provisioning.
- Refactored model training code using Ray distributed framework on GCP for a retail client, reducing the training time by 3x.
- Led technical solution design for clients and mentored junior engineers.

Endeavour Group   Sydney, AU
Senior Data Scientist   Nov. 2020 – Feb 2022

- Managed and maintained a recommendation model for a major Australian liquor brand, driving personalized offer emails to millions of customers.
- Analyzed model performance and email campaign effectiveness, providing recommendations for model optimization.
- Integrated MLflow into the existing ML pipeline to enhance experiment tracking, enabling rapid iteration and efficient model development and deployment for data scientists.

Elula   Sydney, AU
Data Scientist   Jun. 2018 – Nov 2020

- Developed a scalable data quality check tool using PySpark to handle billion-record datasets and detect data drift prior to model training.
- Designed and customized predictive models for customer churn prediction.
- Engineered automated ETL pipelines (Python, AWS) for efficient data analysis workflows.

Professional Certifications

- AWS Certified Mahicne Learning - Specialty
- Databricks Certified Generative AI Engineer Associate
- Databricks Certified Machine Learning Professional
- Google Cloud Professional Machine Learning Engineer
- Google Cloud Professional Data Engineer
- Google Cloud Professional Cloud Developer

Skills

Machine Learning, MLOps, GenAI, AWS SageMaker, AWS Bedrock, AzureML, Vertex AI, Python, DevOps

Education

University of Technology Sydney, Computer Science   Sydney, AU
Doctor of Philosophy   Dec. 2017

- Thesis: Cross-domain Recommender Systems through Tag-based Models