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Portfolio: Martin Ngoh

Martin Ngoh

Senior Data Scientist

github.com/mngoh
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TECHNICAL SKILLS

Languages Proficient: Python, PySpark, SQL, GIT, HTML

Experience: R, SAS, JavaScript, CSS

Tech Stack AWS, Azure, Tableau, Tensorflow, PyTorch, MLFlow, LangChain, numpy, pandas, matplotlib, seaborn, sklearn, Hugging Face, Prophet

EXPERIENCE

Senior Data Scientist July 2024 — Present
Accenture Federal Services Arlington, VA

- Developed and deployed a forecasting model using Prophet (MAPE: 12%), with self-healing, allowing for accurate prediction of computational load, resulting in more than \$1 million in annual savings.
- Built a novel, fully automated, modeling pipeline in AWS using Lambda, providing real-time model results through QuickSight and Athena, and daily self-healing model capabilities using batch transform jobs.
- Identified and recommended a novel approach to using AI for fraud detection. Independently designed and delivered a curated fraud detection model using XGBoost (recall: 85%). The results were delivered to the client and future work was assigned due to this initiative.
- Serve as a mentor for junior data scientists, providing code reviews and coaching sessions to help build their confidence in delivering quality work while uplifting the team's performance as a whole.

Data Scientist October 2021 — July 2024
Deloitte Consulting Arlington, VA

- Strategized a road map with future AI initiatives for the client, helping secure a \$30 million contract over 3 years.
- Boosted fraud detection by 8% by implementing Bayesian optimization (BayesSearchCV) to tune an ensemble model of neural network, elastic net and gradient boosting models.
- Refactored ML models to integrate with MLflow, enabling centralized model tracking and cutting documentation by 90%. This approach allowed for rapid experimentation, leading to \$100 million more in savings for the client.
- Automated a 12-hour program using Linux, reducing turnaround time from 3 days to 2 hours by leveraging cron jobs. Led a team training program for 20 colleagues, which resulted in a 90% increase in efficiency.

PROJECTS

Soccer Player Prediction Model 2024

- Scraped web data and generated multiple supervised ML models to predict goals scored across Europe's top 5 leagues for 175 players, aiding in the acquisition of players costing \$200 million. Recognized as the top performer out of 50 practitioners by a panel 10 Deloitte AI leaders.

EDUCATION

M.S. Business Analytics, Georgetown University (Varsity Men's Soccer Team) 2022
B.S. Supply Chain Management and Analytics, VCU (Varsity Men's Soccer Team) 2020

EXTRACURRICULAR

- Selected as a keynote speaker at Georgetown University's 2024 Black Alumni Summit; spoke on a panel of five AI experts discussing the implications of AI for the Black Community, to an audience of over 200.