

# MARTIN NGOH

Arlington, VA

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## CAREER ACCOMPLISHMENTS

- Work with big data up to ~20 million observations (2TB) to develop AI-driven business insights using SQL, Python, PySpark, SAS, and R
- Performed Bayesian Optimization on Neural Network model, resulting in a 12% increase in accuracy
- Independently created and deployed a K-means clustering algorithm to provide the client with transparency into the modeling process through 4 distinct clusters

## PROFESSIONAL EXPERIENCE

### Deloitte Consulting

Arlington, VA

### Data Scientist

Oct 2021 – Present

*Deloitte Consulting provides actionable strategies to clients across the globe, generating revenues of ~\$30 billion annually. Deloitte is a leader in providing AI solutions to maximize efficiency and business outcomes.*

- Promoted to consultant within 2 years for exceptional performance and given a prestigious award for helping Deloitte win an unprecedented \$37 million contract for 3 additional years
- Co-led the refresh of 4 supervised ML models to aid in CMS' recovery of ~\$479 million annually
- Identified and implemented an automation solution in Linux, reducing turnaround time from 3 days to 2 hours. Conducted a briefing and training session for 20 colleagues, increasing team efficiency
- Developed a Python class to apply propensity weighting to samples resulting in a 10% decrease in elastic net regression error rate
- Decreased ML model processing times by 50% after converting code from SAS to PySpark
- Created an automated model monitoring report using Python and Tableau to measure model performance over time, quantifying model drift for 1,500 model variables

## RELEVANT PROJECTS

### Soccer Player Prediction Model (SPM)

- Scrapped 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 among 50 practitioners by 10 AI leaders at Deloitte and chosen to present to the next cohort showcasing expertise in data analysis

## EDUCATION

Georgetown University, M.S Business Analytics

2021 – 2022

Virginia Commonwealth University, B.S Supply Chain Management and Analytics

2018 – 2020