

Martin Ngoh

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SKILLS

Languages: English, Spanish (Fluent)

Programming Languages: Python, R, PySpark, Spark, SQL, HTML, JavaScript, CSS

Data Science: RStudio, Jupyter Notebook, Spyder, TensorFlow, PyTorch, Keras, NLP, Tableau, Healthcare Analytics
Databricks, Azure, SAS, SQL, Linux, Git, Machine Learning, Artificial Intelligence, Deep Learning, Data Cleaning, Data Engineering, Visualizations (Matplotlib, Seaborn, ggplot2)

WORK EXPERIENCE

Deloitte Consulting LLP

Arlington, VA

Data Scientist

October 2021 – Current

Centers for Medicare and Medicaid (CMS) – Risk Adjustment Data Validation (RADV)

- Co-led the development and automation of machine learning models including, Elastic Net regression (ENET), feed forward neural network, and XGBoost, to aid in CMS's recovery of ~\$479 million dollars annually
- Identified an opportunity to automate a manual process by developing a script to launch jobs using Linux, reducing turnaround time from 3 days to 2 hours. Led a successful presentation and provided training to 20 team members.
- Decreased model processing times by 50% after successfully converting model code from SAS to PySpark
- Developed a Python class to apply propensity weighting to time-based samples, resulting in a 10% increase in the model's ranking ability
- Created a Python-based modeling tool to combat model drift, by measuring the variance in model performance and providing a dashboard as a visual aid

Sabra Dipping Company

Colonial Heights, VA

Logistics Engineer Intern

May 2020 – August 2020

- Pioneered a 90-day time study to quantify internal warehouse processes in the raw materials department. Presented findings to senior leaders, offering a solution to reduce delays by up to 17%
- Created a dashboard containing graphs showing the daily, weekly, and monthly productivity of each process, aiding in senior management's ability to make informed budgeting decisions
- Leveraged System Applications and Products in Data Processing (SAP) to track the movement of raw materials throughout the manufacturing plant

RELEVANT PROJECTS

Personal Portfolio Website – martinngoh.com

- Independently built a personal portfolio website after self-teaching HTML, CSS, and JavaScript within 2 months.
- Ensured responsiveness across different devices and regularly updated with new projects and skills

Financial Customer Segmentation

- Collaborated with a financial services firm to develop 5 high-value customer segments through K-means analysis
- Produced a 20-page report recommending 10 financial products for each segment that would yield the highest financial return

Soccer Player Prediction Model

- Scrapped web data and generated multiple AI models focused on predicting goals scored by players across Europe's top 5 leagues. The analysis would aid in the acquisition of the top players in the world, costing up to \$200 million dollars.
- Presented comprehensive report and business outcomes to a panel of 10 AI leaders at Deloitte, leading to recognition as the standout performer among 50 practitioners

EDUCATION

Georgetown University McDonough School of Business

Master of Science: Business Analytics (*Men's Soccer*)

Virginia Commonwealth University School of Business

Bachelor of Science: Supply Chain Management & Analytics (*Men's Soccer*)