

# Martin Ngho

Washington, D.C | 540-219-6441 | [ngohlmartin@gmail.com](mailto:ngohlmartin@gmail.com) | [Portfolio Website](#)

## SKILLS

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**Languages:** English, Spanish – Fluent

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

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

## WORK EXPERIENCE

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### Deloitte Consulting LLP

**Arlington, VA**

*Data Scientist*

October 2021 – Current

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

- Co-led model refresh activities as they relate to, training, tuning, and scoring new model objects on fresh data.
- Develop and maintain machine learning (ML)/deep learning pipelines from start to deployment by leveraging advanced Python skills using Scikit-Learn (Sklearn), TensorFlow, and Keras libraries
- Designed an automated approach to launch jobs within the Linux environment, reducing turnaround time from 3 days to 2 hours. Led a successful presentation and provided training to 20 team members and senior managers
- Increased processing speeds by 50% by converting ML models from SAS to PySpark, resulting in a more efficient and effective data analysis process within the Azure environment
- Developed a Python class to seamlessly apply propensity weighting to time-based samples, resulting in a significant reduction in the overall model error rate.
- Created a Python-based organization-wide modeling tool to quantify model drift and ascertain the need for retraining.

### Sabra Dipping Company

**Colonial Heights, VA**

*Logistics Engineer Intern*

May 2020 – August 2020

- Pioneered a time study to quantify internal warehouse processes in the raw materials department. Presented findings and recommendations to senior leaders
- Formed a novel procedure for measuring and categorizing time within the department, currently in operation
- Leveraged System Applications and Products in Data Processing (SAP) to track the movement of raw materials throughout the manufacturing plant while identifying potential gaps and risks

## RELEVANT PROJECTS

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### [Personal Portfolio Website](#)

- Independently built a dynamic personal portfolio website using HTML, CSS, and JavaScript in a 2-month timeframe.
- Ensured responsiveness across different devices and regularly updated with new projects and skills.

### Soccer Player Prediction Model

- Demonstrated strong statistical analysis skills through an end-to-end project encompassing problem formulation, data collection, model construction, and deployment. The project yielded precise predictions of soccer players' goal-scoring performance.
- Presented comprehensive statistical analysis and outcomes to a panel of 10 AI experts within the organization, leading to recognition as the standout performer among a group of 45 practitioners.

### Financial Customer Segmentation

- Collaborated with a financial services firm to develop actionable customer segmentations through K-means analysis
- Produced a comprehensive 20-page report for the client, providing actionable insights on high-value customer segments

## EDUCATION

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### Georgetown University McDonough School of Business

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

### Virginia Commonwealth University School of Business

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