Noelani Phillips

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EDUCATION

Carnegie Mellon University **Aug 2021 - May 2025**

Bachelor of Science in Statistics and Machine Learning, Minor in Artificial Intelligence

Relevant Coursework: Data Structures and Algorithms, Deep Learning, NLP, Data Visualization, Statistical Data Analysis

Master's Program *(Pursuing)*

Planning to pursue a Master's degree in Statistics or Data Science graduating May 2026

EXPERIENCE

Salesforce **May 2024 - Aug 2024**

Data Science Intern

- Developed a revenue-forecasting tool using Python and SQL that automates the allocation of sales quota for commissionable employees, driving efficiency among Sales Strategy teams in their territory planning process.
- Improved default XGBoost model's performance against business logics by 14% with simplified pre-processing logic, targeted feature selection, and regularization for zero-inflated data.
- Led cross-functional collaboration with operations manager and stakeholders to align model capabilities with business needs and incorporate the final product into planning dashboards such as AnaPlan.

Carnegie Mellon University **Nov 2023 - May 2024**

Machine Learning Researcher

- Designed a deep learning system that simulates Bayer's supply chain and proactively identifies weak nodes in the network through stress-testing.
- Trained a Graph Neural Network (GNN) with PyTorch and TensorFlow on high-impact disruption scenarios to learn the patterns of the supply chain and predict the monetary impact.
- Used backpropagation on the input scenarios to pinpoint specific nodes that, when disrupted, have the largest effect on the supply chain as a whole.

Cognitive and Social Development Lab **May 2023 - Aug 2023**

Data Analyst Intern

- Modeled how children use their existing vocabulary to acquire and organize new semantic knowledge through a comprehensive analysis of three language corpora (8-13 million words) with Python, R, and NLTK.
- Compared the performances of Point Mutual Information (PMI) and Latent Semantic Analysis (LSA) as probability-based estimates of the likelihood of two words being related based on how often they appear together in a corpus.

Carnegie Mellon University **Aug 2023 - Present**

Teaching Assistant

- Taught core programming concepts to 140+ students in R including data structures, functions, debugging, logical design, and abstraction through hands-on coding exercises focused on statistical analyses.

PROJECTS

Racial Identity Profiling in Contra Costa (3rd Place Prize in Undergrad Statistics Research) **Jan 2024 - May 2024**

- Uncovered patterns of racial and ethnic disproportionality in police stops with linear/logistic regression, hypothesis tests, and decision trees in R to make policy recommendations to Contra Costa's Office of Justice.
- Conducted sensitivity analyses to assess how disparate sources of demographic information magnified or reduced calculated racial disparities and ensure that statistical conclusions were robust to variations in input.

Salesforce Intern Pitch Competition (1st Place Prize) **July 2024**

- Created product pitch and Figma demo focused on AI and accessibility in Slack which placed 1st out of 60+ teams.

SKILLS

Languages: Python, SQL, R, C, C++

Libraries: Pandas, NumPy, PyTorch, TensorFlow, Scikit-learn, Matplotlib, Keras, NLTK

Tools/Cloud: Tableau, Excel, AWS, GCP, Git, Snowflake, SageMaker, Jupyter Notebook