Carlos Murga

US Citizen, Chapel Hill, NC

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EDUCATION

Master of Science, Analytics   2025-Expected 2027
Georgia Institute of Technology   Online

Bachelor of Science, Biomedical Engineering   2013-2019
Instituto Tecnologico de Tijuana   Tijuana, B.C., MX

COURSEWORK

- **Data Analytics for Business:** R, Linear Models, Binary Response, Censored/Truncated Models, Survival models
- **Introduction to Analytics Modeling:** R, Regression, SVM, Clustering, Classification, Survival, CART, Bayesian, Probabilistic
- **Computing for Data Analytics:** Python, Data Structures, data cleaning, visualization, vectorizing

SKILLS

Technical Skills	Python (Pandas, NumPy), R(Tidyverse), SQL (Snowflake), Tableau
Soft Skills	Strong problem solver, good team worker, self-initiative, communicator

EXPERIENCE

Data Research Analyst   Feb 2025 - Present
University of North Carolina at Chapel Hill   *Chapel Hill, NC*

- Designed and implemented a Python-built automated Data Analysis pipeline for experiment data processing; leading to a 50% reduction in data exploration time which lead to the optimization of data collection parameters
- Processed **microelectrode array (MEA)** recordings using **Python** distinguishing neuronal activity from noise via template correlation. Applied **Fourier analysis** (`numpy.fft`) to compute power spectra and identify spikes. Addressed computational bottlenecks via **stratified sampling** and leveraging `Dask` and `NumPy` for large-scale spike analysis while maintaining statistical validity of neural metrics.

Data Analyst   Feb 2023 - July 2024
Confie   *Tijuana, B.C., MX*

- Developed Debt Collections Dashboard (Tableau/Snowflake SQL) that provided real-time visibility into account status, improving resource allocation efficiency by 20% and reducing manual data compilation time.
- Governed a portfolio of 13 BPO Tableau dashboards, overseeing the data integrity through complex data conversions and rigorous SQL validation statements to ensure reporting accuracy for critical business operations.

CERTIFICATIONS

Supervised ML: Regression and Classification
DeepLearning.AI

Advanced Learning Algorithms
DeepLearning.AI