Kevin Gael Hernandez-Espinoza

Charlotte, North Carolina

Kevinawge@gmail.com | 980-312-4700 | https://www.linkedin.com/in/kevinawge

EDUCATION

University of North Carolina at Chapel Hill – Chapel Hill, NC   August 2021 – May 2025
B.S. Major in Statistics and Analytics, Minor in Spanish for the Business Professions
- Scholarships: Carolina Covenant Scholarship, NEXT NC Scholarship

TECHNICAL SKILLS

- **Tools:** Python, SQL, R, Excel, Power BI, Tableau; **Languages:** Bilingual – English (Native), Spanish (Native)
- **Methods:** Predictive Modeling, Statistical Inference, Data Analysis, Machine Learning, Forecasting, Data Visualization

WORK EXPERIENCE

Water Institute at UNC – Chapel Hill, NC   September 2024 – May 2025
Data Science Research Assistant
- Engineered custom R scripts to clean and standardize 5,000+ survey records, reducing manual effort by 30+ hours/month
- Applied machine learning techniques in Python, including multivariate regression and custom feature engineering, to model regional contamination risk zones and inform health department advisories
- Automated full-cycle analytics and reporting workflows using R markdown and ggplot2, generating dynamic visual outputs that accelerated research publication timelines by 25% and improved team collaboration

A&W Electric – Charlotte, NC   June 2024 – August 2024
Inventory and Data Analyst Intern
- Boosted restocking precision by 20% and cut sync errors by 35% via SQL rules across 3 warehouses and 50K+ records
- Built and deployed a real-time inventory monitoring tool using Python and Power BI, integrating SQL-driven data pipelines to visualize fulfillment rates, delayed shipments, and item-level movement across 100+ daily transactions
- Automated KPI reporting by embedding Python scripts into Excel workflows, cutting manual reporting time by 8+ hours monthly and improving operations team decision speed by 42%

Dominion Energy – Gastonia, NC   June 2023 – August 2023
Data Analytics Intern
- Analyzed 100K+ supplier records via SQL joins, identifying $200K+ in overbilling and enabling renegotiations
- Automated contract performance tracking by generating recurring visual reports and compliance summaries in Python, reducing manual effort by 35% and enhancing KPI visibility for leadership
- Developed Python-based regression models to forecast vendor performance risk using delivery trends and historical compliance data, improving early detection of supply chain issues

El Centro Hispano de Carrboro – Carrboro, NC   September 2022 – May 2024
Community Outreach Assistant
- Connected 250+ underserved residents to financial services through bilingual outreach, partnering with local banks and tailoring campaigns to Spanish-speaking communities
- Built an Excel-based participant tracking system with pivot tables and conditional logic, streamlining monthly reporting across 10+ programs and reducing administrative time by 25%

PERSONAL PROJECTS

GitHub Portfolio: https://kevinawge.github.io/Blog/

Gold & Silver Price Forecasting with ARIMA and Prophet (Python, Time Series Modeling)   April 2025
- Built a Python pipeline to model 10 years of gold and silver prices, with custom loaders, ADF tests, and rolling stats analysis
- Achieved 34% lower RMSE and 50% lower MAPE vs Prophet over 30 days using residual diagnostics and forecast overlays
- Automated preprocessing and forecast evaluation using RMSE, MAE, and MAPE, reducing model tuning time by 40%

YFinance Forecasting Financial Indicators with ARIMA & SARIMA (Python, Time Series Modeling)   May 2025
- Developed ARIMA and SARIMA models to forecast AAPL prices, cutting 30-day RMSE by 28% through seasonal tuning
- Benchmarked ARIMA vs. SARIMA using RMSE, MAE, and MAPE; SARIMA achieved 35% lower MAPE on cyclical data
- Visualized prediction intervals and RSI/signal overlays to enhance interpretability and validate short-term forecasts

Global Financial & Macroeconomic Indicators Analysis (PostgreSQL, SQL)   November 2024
- Cleaned and structured 800K+ financial records to enable fast queries on inflation, GDP, rates, and stock indices
- Identified 20x volatility spikes during 2008 and 2020 by analyzing monthly price spreads and market volume trends
- Built an SQL query dashboard to assess inflation–market correlations and identify top 10 months of peak trading activity