Aram Ramos

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Fully Work Authorized · No Sponsorship Required

SKILLS
Programming Languages: Python, R, SQL,
Tools: Spark, Hadoop, GCP, Linux, GitHub, Tableau
Languages: English and Spanish (fluent)

EXPERIENCE

Data Scientist Analytics Engineer
US Cellular, Chicago, IL   **November 2022 – present**
- Identified areas of concern for the network by using geospatial statistical modeling and working with large datasets (Python,R,SQL), which improved 4 million customers' network perception
- Built an anomaly detection tool by using machine learning (Python, time series) and querying big datasets (SQL) to discern meaningful patterns from outliers, which halved response times and saved $30K per event
- Implemented an analytical tool by using Large Language Models (Python, SQL) to automate 5 manual proceses that reduced alarm flooding by 70%
- Performed 30 causal statistical analyses (R, Python) to identify and explain root causes of events in the network which optimized 10 processes and benefited 4 million customers
- Communicated data-driven insights with compelling vizualizations (R, Python, Tableau) to support 10 non-technical stakeholders in decision-making
- Mentored 60 team members in statistical and machine learning methods (geospatial analysis, logistic regression, time series) by designing and addressing 2 reproducible workshops (R, Python,GitHub)

Data Scientist Consultant   **January 2021 – August 2022**
Freelance, Seattle, WA
- Collaborated with the International Development Law Organization to create data products by using explorative and statistical analysis (R), which improved 8,000+ police officers' competencies
- Developed and tracked 30 metrics for 20 public-policy interventions by using statistical models (R, time series) that supported 30 stakeholders from the German Agency for International Cooperation
- Implemented predictive models (R, time series) to forecast leading causes of death in Mexico to optimize 10 public health interventions and support 20 stakeholders
- Identified new growth channels for 5 universities by performing statistical analysis (forecasting, clustering, and customer segmentation, R, Python, SQL) to launch 30 new products that served 25,000 people

Senior Data Scientist   **September 2018 – January 2021**
La Salle University, Mexico City, Mexico
- Promoted to Sr Data Scientist; managed a team of 5 data analysts that used data science tools (R, Python, SQL) to guide strategic decisions for 70 programs and 5,000 students
- Guided statistical modeling and worked with big datasets (R, Python) to support growth strategies, which increased the number of programs by 30%
- Implemented predictive models by using machine learning and statistical models (R, time series) to save $10 millions for marketing and financial team
- Communicated complex insights by using compelling visuals, dashboards, and reports (R, Python, Carto, Tableau) to support 30 non-technical stakeholder in decision-making

Data Scientist   **September 2015 – August 2018**
La Salle University, Mexico City, Mexico
- Performed statistical modeling (regression, time-series analysis, clustering, R) to identify new growth opportunities , which resulted in openning a new campus valued in $150 millions
- Implemented an analytical tool by using predictive machine learning models (Python) to reduce students' dropout rate by 15% per year
- Conducted experimental design by developing and analyzing large-scale surveys (R) to identify and improve customers' perception and critical needs, wich improved 70 programs and served 5,000 students
- Generated and communicated 50 customer intelligence analyses by using statistical modeling and working with large datasets to support leadership in decision-making (R, Carto)

Statistician   **January 2015 – August 2015**
Volaris Airlines, Mexico City, Mexico
- Developed an analytical solution to detect anonaly consumption patterns by using time series modeling (R), which increased revenue by 5%
- Redesigned data extraction pipelines by implementing SQL queries in large datasets to reduce waiting times by 70%
- Executed 5 data projects simultaneously (forecasting, customer segmentation, clustering, regression analysis) to improve 10 products and services that served 1 million customers per month

EDUCATION
Master of Science in Demography, The College of Mexico (Mexico City)   **July 2012**
> Coursework: Time Series, Advanced Regression Analysis, Advanced Statistics, Statistical Programming (R, Stata)

Bachelor of Science in Actuarial Mathematics (Major in Statistics),   **July 2008**
National Autonomous University of Mexico (Mexico City)
> Coursework: Statistics, Probability, Regression Analysis, Stochastic Processes, Forecast Models, Linear Algebra, Finance, Risk Theory, Actuarial Mathematics, Advanced Calculus

PROJECTS
Geospatial statistical modeling to analyze COVID-19 deaths in Mexico City. Developed an interactive dashboard to communicate analytics for COVID-19 deaths in Mexico City by using advanced statistical techniques, which received 5,000+ views per day (R, Carto)

Statistical modeling to forecast mortality in Mexico (2018) (Silva, E. Ramos, A & K. Olvera)**.** Researched death probability and life expectancy for Mexico by using advanced forecast and statistical techniques to improve death rates predictions for the insurance industry (R)

Fatal car accidents in Mexico City, a geographical and temporal perspective (2015) (Ramos, A., Silva, E. & A. Aguirre). Performed explorative data analysis and advanced forecast models for fatal traffic accidents in Mexico City to guide public health requirements (R, Matlab)

ADDITIONAL EXPERIENCE AND AWARDS
MIT Sloan Fellow (2018): Awarded 1 out of 2 competitive full fellowships by MIT Sloan to pursue "*Leveraging Big Data for Sustainable Development*" program at MIT Media Lab

Undergraduate and Graduate Instructor (September 2012 – December 2021): Taught undergraduate and graduate full-credit courses (National Autonomous University of Mexico-UNAM, La Salle University, Iberoamerican University, Anahuac University). Mentored 6-60+ students per class: Biostatistics, Generalized Linear Models, Mathematical Demography, Time Series Analysis, and Actuarial Mathematics. Used Stata, R, Python.

Volunteer Interpreter (April 2021- September 2021): Sacramento Alliance for Vaccine Equity**,** Sacramento, CA**.** Translated between Spanish and English, filled out forms, and entered data to help 10,000 neighbors to get 16,000 COVID-19 vaccine doses

Second Prize, Enhance Your Ideas Competition (January 2019): Awarded 2nd prize for "Building a Data Lab at La Salle University" project

PROFESSIONAL DEVELOPMENT
Professional Career Advancement Program in Data Science, Correlation One, USA (remote), 2023
Building LLMs Applications from Scratch into Production workshop, SDSC, Atlanta, GA, 2023
Python for Scientific Research course, National Polytechnic Institute, Mexico City, Mexico, 2021
Leveraging Big Data for Sustainable Development program, MIT, Cambridge, MA, 2018
Project Management course, La Salle University, Mexico City, Mexico, 2014