**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 proceses 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