

# Chellyann M. Moreno

## Data Scientist



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Data Scientist and Army veteran with active security clearance, experienced in using predictive modeling, data processing, and data mining algorithms to solve challenging business problems. Involved in Python open source community and passionate about deep reinforcement learning.

## TECHNICAL SKILLS

Python - SQL - Tableau - Matplotlib - MySQL - Pandas - NumPy - Spark - Applied Statistics - Machine Learning - Natural Language Processing - Data Storytelling - Classification - Regression - Clustering - Time Series Analysis - Anomaly Detection - Seaborn - SciKitLearn - Anaconda - Jupyter Notebooks - Git/GitHub

## DATA SCIENCE PROJECTS

### [Consumer Complaint Response](#)

Created a Linear Support Vector model to predict a financial company's response to a consumer's complaint. Utilized NLP to analyze 3.5 million complaints from the last 12 years to the CFPB to see how the wording of a complaint affects the response. Discovered that the response can vary based on the complaint's sentiment and the targeted product. The model was able to produce an accuracy of 79.4% and a recall score of 99%.

### [Covid-19 Risk Prediction Project](#)

In this project, we analyzed the impact of pre-existing conditions and symptoms on COVID-19-positive patients using a dataset from the Mexican government. Our goal was to develop a classification model that accurately predicted the risk level of patients, enabling hospitals and clinics to better prepare and allocate resources for future patients, regardless of their test results or patient volume. We used a Random Forest model and achieved an impressive accuracy of 74.2%, surpassing the baseline by 26.2%.

### [Github Programming Language Prediction Project](#)

In this data science and language analysis project, we aimed to develop a predictive model to categorize code repositories based on their content and structure, efficiently determining the primary programming language. This approach enables easier project discovery and fosters collaboration within the programming community. The Decision Tree model demonstrated superior performance and achieved an accuracy of 54%, surpassing the baseline by 7%.

### [Zillow Regression Project](#)

In this project, we analyzed a dataset from Zillow containing transactions of single-family houses that occurred in 2017. The data was solely used for exploration purposes and not intended for real-life predictions. Our main focus was to identify the factors influencing the tax value of these properties and improve tax value predictions. We aimed to develop predictive insights for tax value. The best-performing model, Polynomial Regression with a degree of three, achieved an impressive ~44% improvement over the baseline, with an RMSE of \$543k and an R2 of 44%.

## PROFESSIONAL EXPERIENCE

### Disability Services of Southwest- San Antonio TX

Dec 2021 - Feb 2023

Various Roles:

#### *Data Coordinator*

- Analyzed data, formulated conclusions, and provided recommendations based on specified models.
- Conducted thorough research, data gathering, and technical reviews to ensure data accuracy and reliability.
- Produced a variety of written deliverables, including reports, spreadsheets, databases, formal process

mapping, technical designs, and system testing and implementation activities.

- Troubleshoot issues in data reports to maintain the quality and integrity of information.
- Identified key metrics that supported actionable recommendations for various aspects of the business.
- Collaborated closely with the Data Compliance Manager to ensure data standards and regulatory requirements were met.
- Leveraged data analysis skills to create predictive billing issue reports, leading to proactive issue resolution and safeguarding company revenue.
- Developed user-friendly, real-time data reports that empowered employers with valuable insights for informed decision-making.
- Enhanced the company's data capabilities by providing training to managers and peers, improving the accuracy and reliability of reports.
- Demonstrated proficiency in data science, analysis, and machine learning, driving measurable business outcomes through data-driven strategies.

#### *EVV Coordinator*

- Oversaw and supervised comprehensive payroll across 11 locations, ensuring accuracy and compliance.
- Trained Specialists on EVV Maintenance and payroll procedures for efficient payroll management.
- Proactively addressed EVV and payroll-related issues, resolving discrepancies, unlocks, syncing problems, and data discrepancies.
- Collaborated with the payroll department to resolve disputes and ensure accurate payment to attendants based on timekeeping system deadlines, demonstrating proficiency in payroll management and complex data interpretation.

#### **Department of Veterans Affairs- San Antonio TX**

Jan 2019 - Feb 2021

##### *Advanced Medical Support Assistant*

- Collaborated in interdisciplinary care delivery, utilizing data reports to optimize clinic utilization and support patient care.
- Trained and mentored other Medical Support Assistants, ensuring effective clinic operations and administrative support.
- Maintained effective communication with patients, healthcare teams, and external agencies, promoting My HealthyVet utilization.
- Managed appointment scheduling and addressed access issues promptly to meet mandated timeframes.
- Conducted daily reviews of active/pending Consults, Encounters, Electronic Wait List, Recall list, and MHV secure messaging for accuracy and timely disposition.

#### **US. Army Reserves- FL**

Jan 2017 - Aug 2021

##### *Preventive Medicine*

- Tracked and monitored food-borne illnesses and STIs across a military base, utilizing data analysis techniques to conduct thorough inspections and ensure effective disease management.
- Led field sanitation classes, certifying over 300 soldiers, and enhancing public health knowledge and preparedness within the military community.
- Provided regular briefings to commanders and higher-ranking officials, delivering actionable recommendations and insights on public health hazards for informed decision-making.
- Managed monthly and quarterly safety inspections, applying data analysis to ensure compliance with safety standards and maintain a secure environment for military personnel.
- Collaborated with a multidisciplinary team on preventive medicine staff, implementing control operations and conducting surveys to prevent infection and disease.

## **EDUCATION**

### **Codeup**

Certification of Completion

Feb 2023 - Jul 2023

Fully-immersive, project-based 20-week career accelerator that provided me with 670+ hours of expert instruction in applied data science. Developed expertise across the full pipeline (planning, acquisition, preparation, exploration, modeling, storytelling), and became comfortable working with real, messy data to deliver actionable insights to diverse stakeholders.

### **San Antonio College**

Associate degree in Anthropology

Graduated May 2023