

CARLOS MENDEZ

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PROFESSIONAL SUMMARY

Healthcare data scientist with 4 years of experience applying machine learning and statistical analysis to improve patient outcomes and operational efficiency. Expertise in clinical data analysis, predictive modeling, and healthcare analytics. Passionate about leveraging data science to solve complex healthcare challenges.

SKILLS

- **Programming Languages:** Python (Advanced), R (Advanced), SQL (Intermediate)
- **Data Science Libraries:** Pandas, NumPy, scikit-learn, TensorFlow, ggplot2, caret
- **Machine Learning:** Predictive Modeling, Regression, Classification, Survival Analysis
- **Statistical Methods:** Hypothesis Testing, Experimental Design, Bayesian Analysis
- **Healthcare Systems:** FHIR, HL7, ICD-10 coding, Epic (basic)
- **Data Visualization:** Tableau, R Shiny, Matplotlib, Seaborn
- **Tools:** Git, Jupyter, RStudio, Docker

PROFESSIONAL EXPERIENCE

DATA SCIENTIST

HealthTech Innovations, San Francisco, CA

June 2020 - Present

- Develop predictive models for hospital readmission risk, reducing 30-day readmissions by 15%
- Create patient segmentation models to identify high-risk populations for targeted interventions
- Build machine learning pipelines for processing electronic health record data
- Collaborate with clinical staff to translate business needs into analytical frameworks
- Present findings and recommendations to executive leadership and clinical teams
- Ensure compliance with HIPAA and other healthcare data regulations

HEALTHCARE ANALYST

San Francisco General Hospital, San Francisco, CA

April 2018 - May 2020

- Conducted statistical analysis of patient flow data to optimize emergency department operations
- Built dashboards to monitor key performance indicators for hospital administration
- Developed models to predict patient length of stay with 82% accuracy
- Performed analysis of clinical quality measures for regulatory reporting
- Collaborated with physicians and nurses to implement data-driven improvements

EDUCATION

MS in HEALTH DATA SCIENCE

University of California, San Francisco, San Francisco, CA

2016 - 2018

- GPA: 3.8/4.0
- Thesis: "Machine Learning Applications for Predicting Hospital-Acquired Infections"
- Relevant Coursework: Biostatistics, Machine Learning in Healthcare, Clinical Data Mining, Healthcare Informatics

BS in STATISTICS

University of California, Los Angeles, Los Angeles, CA

2012 - 2016

- GPA: 3.7/4.0
- Minor: Public Health
- Relevant Coursework: Statistical Methods, Linear Models, Database Management, Epidemiology

PROJECTS

- **Patient Flow Optimization:** Developed simulation models to optimize emergency department resource allocation
- **Clinical Text Analysis:** Applied NLP techniques to extract insights from unstructured clinical notes
- **Medical Image Classification:** Created convolutional neural networks to classify radiological images
- **Medication Adherence Prediction:** Built models to identify patients at risk for medication non-adherence

CERTIFICATIONS

- Certified Healthcare Data Analyst (CHDA)

- Healthcare Information and Management Systems Society (HIMSS) Certification
- Google Cloud Platform - Healthcare & Life Sciences

PUBLICATIONS & PRESENTATIONS

- Mendez, C., et al. (2022). "Machine Learning Applications in Predicting Hospital Readmissions." *Healthcare Informatics Conference*.
- Mendez, C., et al. (2021). "Optimizing Clinical Workflows Using Predictive Analytics." *Journal of Healthcare Informatics*.

PROFESSIONAL AFFILIATIONS

- American Medical Informatics Association (AMIA)
- Healthcare Information and Management Systems Society (HIMSS)
- Data Science for Social Good - Healthcare Working Group