MICHAEL RODRIGUEZ, MSc

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PROFESSIONAL SUMMARY

Results-driven data scientist with 4 years of experience applying machine learning and statistical analysis to solve complex business problems. Expertise in predictive modeling, A/B testing, and transforming data into actionable business insights. Strong communicator with a passion for mentoring junior analysts.

SKILLS

- **Programming Languages**: Python (Advanced), SQL (Advanced), R (Intermediate)
- **Data Science Libraries**: NumPy, Pandas, scikit-learn, XGBoost, TensorFlow
- **Cloud & Big Data**: AWS (EC2, S3, Redshift), Spark
- **Data Visualization**: Tableau, Matplotlib, Seaborn
- **Databases**: PostgreSQL, MySQL, Redshift
- **Tools**: Git, Jupyter, Docker

PROFESSIONAL EXPERIENCE

DATA SCIENTIST

Fintech Solutions Inc., San Francisco, CA

January 2020 - Present

- Built and deployed machine learning models for fraud detection, reducing false positives by 30% while maintaining 99% fraud capture rate
- Designed and implemented a customer segmentation model using clustering algorithms, leading to a 15% increase in marketing campaign conversion rates
- Developed a churn prediction model with 85% accuracy, enabling proactive retention strategies
- Created interactive dashboards for executive reporting using Tableau
- Mentored junior data scientists and analytics interns
- Collaborated with engineering team to optimize model deployment processes

DATA ANALYST

Retail Analytics Group, San Jose, CA

March 2018 - December 2019

- Conducted A/B testing for website optimizations, resulting in a 12% increase in conversion rate
- Built predictive models for inventory management using time series forecasting
- Created ETL pipelines for data cleaning and preprocessing using Python and SQL
- Implemented automated reporting solutions, saving 15+ hours of manual work weekly
- Collaborated with marketing teams to develop customer lifetime value models

EDUCATION

MS in STATISTICS

University of California, Berkeley, Berkeley, CA

2016 - 2018

- GPA: 3.8/4.0
- Thesis: "Ensemble Methods for Improved Prediction Accuracy in Imbalanced Datasets"
- Relevant Coursework: Machine Learning, Statistical Inference, Experimental Design, Regression Analysis

BS in MATHEMATICS

University of California, Los Angeles, Los Angeles, CA

2012 - 2016

- GPA: 3.7/4.0
- Minor: Computer Science
- Relevant Coursework: Linear Algebra, Probability Theory, Data Structures, Algorithms

PROJECTS

- **Healthcare Cost Prediction**: Developed models to predict healthcare costs based on patient demographics and medical history, achieving 88% accuracy
- **Natural Language Processing for Customer Feedback**: Built a sentiment analysis model to categorize customer reviews, identifying key areas for product improvement
- **Stock Price Prediction**: Created and backtested time series models for stock price prediction

CERTIFICATIONS

- Microsoft Certified: Azure Data Scientist Associate
- DataCamp Data Scientist with Python Career Track
- Coursera Machine Learning Specialization