

Alexis Martinez

630-607-8357 | alexdan9430@gmail.com | GitHub: [Admar17](#)

Work Experience

Artificial Intelligence/Machine Learning Scientist

General Motors

January 2024 – Present

- Designed a *Battery Strategy Optimization Tool*, projected to save up to \$100 million by 2030, highlighting strategic cost reduction through data-informed resource management, advanced battery analytics, and anomaly detection.
- Developed a time series forecasting tool to enhance predictive analytics for automotive program planning, improving data accuracy and model performance.
- Scaled and deployed a Python Dash application to support dynamic portfolio management, enhancing accessibility for non-technical stakeholders through user-friendly and accessibility/disability-minded user interfaces.
- Implemented cross functional AI modeling solutions with various business aspects including inventory, sales, customer care and after sales, and manufacturing.
- Examined large (5GB+) data sets to determine various patterns within EV data including voltage errors, capacity degradation, and error between estimated vehicle range and true range.
- Implemented end-to-end AI and machine learning solutions on cloud platforms such as AWS, Google Cloud, and Microsoft Azure to increase data governance and sharing, reduce on-prem resource consumption, and streamline and modernize data processes.

Founder and Lead AI/ML Developer

CAM Software LLC

June 2023 – Present

- Founded CAM Software LLC, spearheading the development of AI-driven products with a strategic focus on data privacy within healthcare applications, aligning business objectives with data science initiatives to drive impactful outcomes.
- Developed *Scrubbil AI*, a solution leveraging a condensed Large Language Model (LLM) to identify and redact sensitive PII from healthcare data, streamlining data compliance processes in electronic health records (EHRs).
- Developed generative AI features for dynamic user interfaces and personalized recommendations, employing machine learning techniques to enhance user experience and drive engagement.
- Applied statistical methods and SQL queries to perform data analysis, construct hypotheses, and derive actionable insights that informed data-driven decision-making across campaigns and user interactions.
- Maintained up-to-date knowledge of industry trends, tools, and best practices in data science and AI, actively contributing to thought leadership and intellectual property development within the company.

Associate Artificial Intelligence/Machine Learning Scientist

General Motors

January 2022 – January 2024

- Conducted multivariate time series analyses to enhance forecast precision on vehicle incentives, segment share, and production capacity.
 - Implemented Prophet modeling to improve accuracy in electric vehicle sales and production planning.
 - Streamlined data pipeline development, automating key processes and refining parameter selection to reduce errors and improve operational efficiency.
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Volunteer Web Developer

Community First Inc., Detroit, Michigan (Remote)

April 2023 – October 2023

- Developed webpage templates for new housing projects supporting low-income communities.
 - Gathered stakeholder feedback to ensure templates met organizational needs.
 - Improved web development processes, enhancing the organization's ability to launch new initiatives efficiently.
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Additional Experience

Executive Mentorship Program Participant

General Motors

April 2023 – April 2024

- Participated in a mentorship program with the Vice President of Global Electrification.
 - Collaborated with mentees from diverse departments to understand electrification strategies.
 - Enhanced industry knowledge through monthly discussions focused on professional growth.
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Education

Master of Science in Data Science and Analytics

Elmhurst University, Elmhurst, Illinois

August 2022 – July 2024

- **GPA:** 4.00

Bachelor of Science in Data Science.

Brigham Young University - Idaho, Rexburg, Idaho

January 2020 – December 2021

- **GPA:** 3.89
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Skills

- **Technical Skills:** Python, SQL, R, Time Series Forecasting, Optimization Algorithms, Statistical Modeling, Natural Language Processing, Python Dash, Tableau, R Shiny, Databricks, Interactive Dashboards
- **Soft Skills:** Cross-functional Team Collaboration, Strategic Planning, Stakeholder Communication, Leadership, Problem Solving, Analytical Thinking, Customer Orientation, Project Management
- **Languages:** English, Spanish