Amber Walker
Data Scientist

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SUMMARY

Data Scientist transitioning from a successful career as a Project Coordinator, with 2+ years of experience managing cloud deployments (AWS, Azure, GCP) and collaborating with technical teams. Over 1 year of hands-on experience, including academic projects, in machine learning, Python, and statistical modeling, developing predictive models and data-driven solutions. I excel at bridging technical teams and stakeholders, communicating complex ideas, and aligning solutions with goals.

TECHNICAL SKILLS

Languages	**Proficient:** Python; **Competent:** R, SQL
Tech Stack	TensorFlow, PyTorch, Flask, Git, CI/CD, Docker, Postman, Jupyter Notebook (Anaconda), Google Cloud Platform (GCP), BeautifulSoup, Power BI

EXPERIENCE

Data Scientist — Remote, U.S.
Sandcat IT, LLC (Contract Project) — September 2024 - Present

- Designed and deployed an end-to-end predictive modeling pipeline using Python (Pandas, NumPy, sklearn) and XGBoost to estimate used car market prices, achieving a highly accurate MAE of 720 and R^2 of 0.96.
- Automated data preprocessing and feature engineering processes, implementing advanced techniques such as target encoding, mileage-age interaction features, and imputation for missing data to ensure robust predictions.
- Developing a production-ready deployment pipeline to enable real-time price predictions and empower users to identify the best car deals quickly and efficiently.
- Conducted rigorous model validation and hyperparameter tuning, ensuring optimal performance and generalizability across diverse datasets.

Project Coordinator — Remote, U.S.
Advanced Voice Research Labs, Inc. — August 2021 - September 2023

- Led the deployment of automation software and custom-built databases on AWS, Azure, and Google Cloud, gaining hands-on experience in cloud environments and ensuring seamless integration with client systems.
- Directed cross-functional teams to streamline data workflows, reduce project turnaround time by 30%, and improve project completion rates by 20%.
- Managed multiple projects simultaneously, developing strong organizational skills and the ability to translate complex technical requirements into actionable tasks.
- Collaborated cross-functionally with engineers to develop scalable solutions for client-facing systems.
- Diagnosed and resolved software and data-related issues, showcasing problem-solving abilities essential for managing and analyzing data in technical environments.

EDUCATION

Master of Science in Data Science — **Barcelona School of Economics** — July 2024
- Graduated from one of the top 3 Economics research departments in Europe.
- Degree awarded by Universitat Pompeu Fabra and Universitat Autònoma de Barcelona

Bachelor of Business Administration in Marketing — **The University of Texas at San Antonio** — May 2021
- Graduated with Honors (GPA: 3.76/4.0).
- Relevant coursework: Consumer Behavior, Market Research, Digital Marketing Analytics.

ADDITIONAL PROJECTS

- **Thesis: Causal Effect of Peace Agreements on Violence** — Adapted Double Machine Learning (DML) for panel data to estimate causal effects. Demonstrated expertise in feature engineering, statistical modeling, and validation techniques, with results published in a Medium article.
- **Freelance Contributor & Blogger:** Published articles with AI Advances and authored research-backed content on Medium, simplifying complex data science topics and showcasing practical machine learning insights to a growing readership.
- **Portfolio Projects:** Designed and implemented end-to-end data science solutions in areas like Computer Vision, Natural Language Processing (NLP), and Financial Modeling. Projects highlight skills in data preprocessing, feature engineering, predictive modeling, and deployment. Explore examples at datawithamber.com.