Madison Perez

Data Science Manager

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WORK EXPERIENCE

Ally Financial - Data Science Manager

2022 - current   Detroit, MI

- Managed the migration of data processing workflows, reducing overall processing times and **cutting down computational costs for Ally Financial by $12,564.**
- Introduced FastAPI for deploying APIs for real-time data analysis, making sure the main platform could support 7,328 users simultaneously.
- Developed an automated data quality monitoring system on Hive, significantly boosting data accuracy and lowering manual data cleaning efforts by 81%.
- Coordinated with the IT team to enforce data governance using Bitbucket pull requests and code reviews, ensuring the company complied with all 9 state and federal financial laws.

Quicken Loans - Database Administrator

2019 - 2022   Detroit, MI

- Led a database optimization project on SQLAlchemy, **minimizing query response times by 23 ms** and enhancing application performance.
- Leveraged advanced data encryption and security protocols in Java to secure sensitive information, slashing data breaches by 71% as a result.
- Implemented comprehensive database performance monitoring tools, identifying 14% more issues with the main platform compared to past methods.
- Mentored a team of 3 junior database interns and taught them the best practices for database management, enabling them to complete 43% more tasks within 7 months.

University of Michigan - Research Assistant

2016 - 2019   Ann Arbor, MI

- Created engaging visualizations using Plotly for research findings, **improving data presentation by 37%**, according to anonymous surveys.
- Increased the accuracy of sentiment analysis models in social media research by 22% with Gensim for natural language processing tasks.
- Assisted in a research initiative that used big data analytics from the Google Cloud Platform, helping the university publish 3 peer-reviewed papers in one year.
- Automated website scraping and analysis processes on Python, saving 68 hours of work per project.

EDUCATION

University of Michigan - Bachelor of Science, Data Science

2012 - 2016   Ann Arbor, MI

SKILLS

Java; SQLAlchemy; PyTorch; Plotly; Hive; Google Cloud Platform; Bitbucket; Amazon ECS; Gensim; FastAPI