

KYLE SHIPLEY

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DATA-DRIVEN STRATEGIST | INNOVATIVE DATA SCIENTIST | IMPACTFUL PRODUCT OWNER

SUMMARY

Led and managed data-driven solutions, from natural language processing programs to predictive model development. Implemented complex syntax translation pipelines, computer vision techniques, and created PowerBI dashboards, optimizing business operations and enhancing strategic insights. Extensive experience in Python, SQL, Alteryx, Snowflake, data visualization tools like Power BI and Tableau, and leveraging advanced technologies such as LLM, OpenCV, Selenium, and NLP tools.

NOTABLE ACCOMPLISHMENTS

- Utilized a LLM to translate T-SQL, DAX, and VBA into ANSI SQL, integrated Postman API, and employed Snowflake for table creation and validation.
- Scraped scanned documents using OpenCV, Selenium, and Tesseract, creating data entries for Snowflake tables.
- Tracked and visualized time series DMV data in PowerBI to identify outliers, maintaining working relationships with various states.
- Forecasted sales for new build locations by analyzing demographic data and dealership sales statistics, providing strategic recommendations that underscore my skills in predictive modeling and strategic analysis.

SKILLS

- Programming: Python (NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, PyTorch, TensorFlow, BeautifulSoup), SQL, (Postgres, Snowflake), DAX, Power Automate, Alteryx, SAS, R, Git.
- Machine Learning: Linear and Logistic Regressions, Gradient Boosted Decision Trees, Random, Forest, Support Vector Machines, K-Means Clustering, Principal Component Analysis, K-fold cross validation, LPO-cross-validation.
- Data Visualization: Power BI, Tableau.
- Product Ownership: Backlog management, Azure DevOps, release pipelines, Agile and Scrum methodologies.
- Technical Skills: API management, DevOps practices, technical documentation, user experience (UX) design.
- Soft Skills: Stakeholder management, collaboration.

EXPERIENCE

Lithia & Driveway (03/2022-12/2024)

Technical Product Owner • Medford, OR

05/2024 – 12/2024

This role bridged the gap between technical and business roles by collaborating closely with developers on project planning and execution. My key responsibilities included managing the product backlog using Agile and Scrum methodologies, designing and managing solutions, employing DevOps practices, and assisting in code development. This role also conducted final User Acceptance Testing (UAT) to ensure solution quality, demonstrated results to stakeholders, and created comprehensive technical documentation. Throughout, ensuring alignment with business goals and fostering strong stakeholder collaboration.

- Collaborated closely with stakeholders to gather and understand requirements, ensuring solutions were aligned with business objectives.
- Demonstrated deep expertise in technical domains, enabling effective translation of complex requirements into actionable solutions.
- Provided strategic guidance and thought leadership to stakeholders, bridging the gap between technical teams and business units.
- Designed and delivered innovative solutions tailored to meet the unique needs of stakeholders, leveraging advanced technologies and industry best practices.
- Actively engaged in continuous learning and professional development to maintain expertise and stay current with evolving industry trends.
- Demonstrated solutions to stakeholders through detailed presentations, highlighting key features and benefits.
- Conducted final User Acceptance Testing (UAT) to ensure that solutions met all functional and performance requirements before release.

Senior Analyst • Medford, OR

01/2023 – 05/2024

Led project intake and managed the development team to streamline data processing and analysis. Developed data collection programs and innovative solutions using advanced technologies. Collaborated with stakeholders to understand requirements and propose actionable solutions.

- Developed a sophisticated pipeline to translate various syntax (T-SQL, DAX, and VBA) into ANSI SQL using advanced technologies.
 - Utilized Large Language Models (LLM) for syntax translation.
 - Integrated Postman API for seamless file input handling.
 - Designed file processing applications to retrieve and organize data queries.
 - Employed Snowflake for table creation and validation.
 - Implemented robust error handling and prompt engineering for SQL accuracy.
 - Verified final tables using LLM to ensure data integrity.
- Implemented computer vision techniques to scrape scanned documents for information, creating data entries for specified Snowflake tables.
 - Utilized libraries like OpenCV for image processing.
 - Integrated tools like Selenium to handle dynamic webpages.
 - Used PDF parsing libraries to convert PDFs into images for analysis.
 - Employed OCR engines such as Tesseract for text extraction from images.
- Utilized Natural Language Processing (NLP) to organize and summarize technician notes for data ingestion.
 - Applied Sentence Embedding and Importance Scoring to enhance data organization.
 - Leveraged tools like NLTK (Natural Language Toolkit), SpaCy, Gensim, TextRank, and Transformers for advanced NLP tasks.

Data Science Analyst • Medford, OR

03/2022 – 01/2023

Expert in data cleaning, processing, and modeling using advanced statistical and computational techniques. Developed algorithms, created visualizations, and built predictive models to identify trends and patterns. Collaborated with stakeholders to provide actionable insights that drive strategy and improve operational efficiency.

- Utilized Alteryx to identify and correct errors in manual entry data
 - Developed and implemented workflows to automate the error detection and correction process.
 - Applied data validation rules and performed data quality checks to ensure accuracy.
- Utilized PowerBI to analyze outliers in DMV processing times
 - Collected and cleaned time series data from multiple DMV databases across different states.
 - Applied statistical techniques to analyze trends and identify outliers.
 - Designed and developed interactive PowerBI dashboards to visualize processing fees and highlight discrepancies.
- Forecast sales for planned build locations using demographic data and dealership sales statistics:
 - Collected and analyzed demographic data, dealership sales statistics, and market trends.
 - Developed predictive models to forecast sales potential for new build locations.
 - Presented findings to stakeholders, including detailed analysis and strategic recommendations for site selection.
- Crafted and updated PowerPoint charts and info-graphics for executive use using HR data:

- Collected and analyzed HR data, including employee performance, turnover rates, and compensation metrics.
- Designed visually appealing and informative PowerPoint presentations and info-graphics.
- Ensured that presentations effectively communicated key insights to executives for data-driven decision-making.

EDUCATION

Maryville University

Master of Data Science Data Science

August, 2023

Brigham Young University

Bachelor of Science Studies Biology

July, 2018

CERTIFICATIONS

- Maryville University: Post Baccalaureate Certificate in Machine Learning, Maryville University