Brett Dickinson

<div align="right">Data Engineer</div>

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Summary

Data professional with a background in solving complex problems using SQL, Python, and Tableau to turn raw data into streamlined, automated insights. Seeking data engineering opportunities to channel my expertise and passion for innovation and efficiency within a dynamic team.

Skills

- **Languages**: SQL, Python (Pandas, Numpy, Requests)

- **Data Visualization**: Tableau, Power BI, Matplotlib, Seaborn

- **AI & Machine Learning**: Large Language Models, LangChain, Prompt Engineering, Regression, Classification (Decision Trees, Random Forest, KNN), Hypothesis Testing, Natural Language Processing

Projects

SQL Copilot: AI-driven Natural Language to SQL Queries   2023
- Processed metadata of 200+ databases, creating a vector database to identify relevant data sources.
- Engineered prompts to interface with Google's flan-t5-xxl text model via HuggingFace Inference API.
- Developed a command line Python application for user questions, utilizing LLM to generate SQL, execute it on a database, and analyze results.

Predicting the Health of Seattle's Urban Tree Cover   2023
- Utilized machine learning to predict health of 150,000+ Seattle trees.
- Extracted and consolidated tree and climate data from diverse sources using Pandas.
- Engineered features and constructed a scikit-learn pipeline with Random Forest Classification with preprocessing, scaling, transforming, and cross-validation.

Employment

Adventist Health | Leader, Special Projects | Mendocino County, CA   Mar 2023 - Current
- Creating and implementing a data strategy to track and improve health outcomes for over 50,000 local health plan members through the consolidation of internal and external data sources.
- Building and automating monthly scorecards and daily metric reports to drive clinical quality and operational improvements for 75 leaders across four hospitals.
- Implementing data flows for monitoring recurring visits for 700+ pacemaker patients.

Adventist Health | Senior Financial Analyst | Mendocino County, CA   Dec 2019 – Mar 2023
- Created and automated the data pipelines and reports for daily productivity analysis.
- Collaborated with operational and clinical leaders to build tools for measuring process improvement in medication reconciliation management, inpatient throughput, and overtime utilization.
- Created financial forecasts for strategic initiatives utilizing internal and market benchmarks.

Education

Springboard Data Science Certification   Dec 2022 – Aug 2023
Intensive data science, Python, SQL, and machine learning training with industry professional mentorship.

Pacific Union College   2013 - 2018
Bachelor of Business Administration, Accounting

Interests

Traveling, golf, hockey, reading, coffee