Leah M. DeYoung

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SUMMARY

Most recently a Software Engineer with 3+ years of project and program management background. Skilled in data analysis, data science, project management, quality control, communication, and cross-functional team cooperation.

SKILLS

Python (pandas, NumPy), Visualization (Matplotlib, plotly-express), Machine Learning (scikit-learn), Project Management (JIRA), SQL (Oracle SQL Developer, PostgreSQL, Microsoft SQL Server), Google Cloud Platform (GCP), Agile, Kanban, and Waterfall methodologies.

TECH PROJECTS - DATA SCIENCE AND MACHINE LEARNING

1. Gold Extraction Machine Learning Model: Code links

Completed exploratory data analysis and cleanup, then created a machine learning model with cross-validation to evaluate the most efficient and accurate machine learning model to maximize the gold ore purification process for a mining company.

- Utilized pandas, scikit-learn, and Matplotlib within Python.
- Trained multiple models using cross-validation with predictions, then created a dummy model for comparison.
- Determined that the second-most accurate is very close to the first, and at least ten times as efficient.

2. Oil Reserve Data Analysis and Machine Learning Model: Code links

Provided exploratory data analysis and developed a machine learning model to predict the oil reserves and profit/loss potential for each of three regions for a mining company.

- Utilized pandas, SciPy, NumPy, Matplotlib, and scikit-learn within Python.
- Developed linear regression machine learning model and used bootstrapping method to predict oil reserves.
- Calculated profit/loss potential loss likelihood for three regions. Recommended best region for oil well development.

3. Ride-Sharing Data Analysis: Code links

Created analysis of taxi businesses' public data to provide recommendations for best locations within the Chicago area for profitable expansion of a ride-sharing business and identified main competition in the taxi business.

- Utilized PostgreSQL as well as pandas, NumPy, streamlit, and plotly within Python.
- Drilled down via SQL to identify specific routes and days to narrow down data for Python analysis.
- Proposed based on hypotheses testing that rain has a positive impact on utilization of rideshare services.

EMPLOYMENT

SPS Commerce Minneapolis, MN/June 2014 – December 2019

Program Manager/Software Engineer II (November 2018 – December 2019)

- Created and managed project plans for scalable and reliable solutions on a data analytics platform as evidenced by providing suppliers with accurate retail sales data by meeting 100% of target implementations within 3 months.
- Created systems to monitor and quality check data completeness and accuracy by using Python, C#, and SQL as evidenced by 70% increase in engineer productivity over one year of implementation.

Quality Engineer II (June 2017 – November 2018)

- Engaged in cross-functional collaboration with engineering, management, and product teams by performing quality testing using Java and SQL in a timely manner, as evidenced by meeting deadlines consistently.

Support Specialist I (June 2016 – June 2017)

- Utilized SQL by performing in-depth exploration of causes and trends in data transmission and content errors to educate Customer Support team on opportunities for client education, as evidenced by 25% client error reduction.

Senior Support Analyst (June 2014 – June 2016)

- Supported clients by advising on best business practices to transmit complete and accurate data to retailers, as evidenced by overall client contact volume reduction over time.

EDUCATION

TripleTen (fka Practicum) - Data Science Program Remote Learning/January 2023 - present

University of Wisconsin – Eau Claire Eau Claire, WI/May 2014

Bachelor of Arts – Spanish and Organizational Communication, *magna cum laude*, University Honors, **GPA 3.56**