Ashley Russell

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EDUCATION

The College of Idaho **Expected May 2026**

Double Major in Philosophy and Mathematics-Computer Science, Minor in Education, Specialization in Data Science *Caldwell, ID*

- **Relevant Coursework:** Intro to Computer Science, Data Structures & Algorithms, Applied Databases, Data Manipulation & Visualization, Discrete Mathematics, Linear Algebra, Multiple Regression Analysis, Statistical Machine Learning

TECHNICAL SKILLS

- **Languages:** Python, R, SQL, Swift, C
- **Libraries & Frameworks:** matplotlib, pandas, NumPy, seaborn, scikit-learn, ggplot2, tidymodels
- **Databases:** SQLite, PostgreSQL, MySQL
- **Tools & Platforms:** Git, GitHub, Jupyter Notebook, Anaconda, RStudio, Tableau, Figma, Microsoft Office

PROJECTS

Spending Habits Analysis | R, tidymodels

- Analyzed consumer spending behaviors from 6,394 individuals across all 50 U.S. states, applying predictive modeling to classify spending patterns.
- Built logistic regression models in R to predict financial behaviors, evaluated feature importance, and explored random forests to improve classification.
- Developed predictive models for financial trend analysis, refining feature selection to improve classification accuracy and insights into consumer spending trends.

K-Pop Music Release Calendar & Analysis | Python, praw, Reddit API, pandas, SQL

- Built a structured database of ~19,200 music releases from 96 markdown files spanning 8 years to analyze music release trends.
- Developed a Python-based data pipeline to extract, clean, and normalize unstructured data, storing it in a SQL database for structured querying.
- Streamlined data collection and storage, reducing manual lookup time and enabling statistical analysis of release patterns.

Diabetes Prediction & Analysis | Python, pandas, scikit-learn, matplotlib

- Built predictive models to analyze 300,000+ chronic disease records across 34 features and identify key risk factors for diabetes.
- Engineered features and applied recursive feature elimination (RFE) to improve model interpretability, trained decision trees, and evaluated feature importance.
- Optimized feature selection for predictive models, improving efficiency and interpretability in chronic disease risk assessment.

WORK EXPERIENCE

Teaching Assistant **February 2024 – May 2024**

The College of Idaho *Caldwell, ID*

- Created informal study guides that improved comprehension for 18 students in an Intro to CS course.
- Graded 70+ coding assignments and managed records in Excel, providing accurate and timely feedback.
- Provided one-on-one support, reinforcing programming fundamentals and troubleshooting student issues.

Library Assistant **May 2023 – Present**

Cruzen-Murray Library *Caldwell, ID*

- Supervise 2–3 student workers, maintaining schedules and workflow efficiency.
- Improved inventory organization in a 100,000+ book collection, reducing misfiled books.
- Troubleshoot printing, scanning, and system issues, assisting patrons with technical problems.