Ella Batdelger

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Education

Dickinson College — Carlisle, PA
Bachelor of Science: Quantitative Economics & Data Analytics — 05/2025
Minor: Statistical Mathematics. GPA: 3.5
Relevant Coursework: Computer Science, Data Systems and Analysis, Advanced Econometrics, Statistical and Machine Learning, Calculus IV, Advanced Probability and Statistics

Skills

Programming Languages: **Python, R, SQL**
Data Manipulation and Analysis: **Excel, RStudio**
Data Visualization: **Power BI, Tableau**
Data Warehousing and ETL: **Power Query, Microsoft Azure**
Developer Tools: **Github, Jupyter Notebook, Anaconda**
Statistical Analysis and Modeling: **Regression analysis, Hypothesis testing**

Related Experience & Personal Projects

Pennsylvania State Employees Credit Union — Harrisburg, PA
Data Analyst Intern — 05/2023 – Present

- Develop and maintain data dashboards and reports using Power BI, SQL, and Excel, improving data accessibility and enabling informed decision-making.
- Optimize and automate recurring reporting processes through different data analysis tools, reducing manual tasks and saving up to 14 work days each month.
- Validate and clean datasets to ensure accuracy, consistency, and reliability, enabling better data analysis and informed decision-making.
- Collaborate with cross-functional teams to gather and analyze data requirements, delivering customized and more efficient solutions for data management and process optimization.

Machine Learning and Data Analysis Projects
Economic Analysis Using FRED API — 09/2024 – Present

- Conduct an in-depth economic analysis of global GDP and unemployment trends utilizing the FRED API for data retrieval.
- Automate data collection and visualization processes, applying advanced Excel functions to present findings and derive actionable insights for economic forecasting.

Customer Purchase Survey Data Analysis — 01/2024 – 05/2024

- Cleaned and preprocessed customer survey data using Python and SQL and implemented web-scraping techniques to gather valuable insights.
- Developed predictive models to optimize inventory management, automating stock-up recommendations for new produce, thereby enhancing business efficiency.

Leadership & Activities

Dickinson College — Carlisle, PA
Math and Computer Science Club, Treasurer — 09/2023 – 05/2024

- Organized 5 events and workshops per month to promote financial literacy and encourage participation in STEM-related activities.
- Managed the club's budget of $3000, ensuring accurate tracking of income and expenses while facilitating financial planning for events and activities.
- Coordinated fundraising initiatives and secured sponsorships to support club programs and resources.

Girls Who Code, Member — 01/2022 - 05/2023

- Participated in coding workshops and collaborative projects, enhancing programming skills and fostering a supportive community for women in technology.
- Engaged in discussions about women's representation in tech, advocating for inclusivity and empowerment through mentorship and outreach initiatives.