Ethan Clark

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EDUCATION

University of Delaware   Aug. 2019 – May 2023
Bachelor of Science in Data Science   *Newark, DE*
 – **Relevant Coursework**: Machine Learning, Data Visualization, Big Data Analytics, Natural Language Processing
 – **GPA**: 3.92/4.00
 – **Activities**: Data Science Society (President), HackUD Organizer, Big Data Club Member

EXPERIENCE

Data Analyst Intern   Jun. 2022 – Aug. 2022
Comcast   *Philadelphia, PA*
 – Analyzed customer data using Python and SQL to identify churn patterns, reducing churn rate by **15%**.
 – Created interactive dashboards with Tableau, providing insights to senior leadership on **5M+ records**.
 – Optimized ETL pipelines to process daily data updates, improving efficiency by **25%**.
 – Collaborated with a team of 10 analysts to deliver actionable recommendations for customer engagement.

Undergraduate Research Assistant   Sep. 2021 – May 2022
University of Delaware Data Science Lab   *Newark, DE*
 – Contributed to a project analyzing social media sentiment using NLP techniques, processing **1TB+ of data**.
 – Developed predictive models with Python (scikit-learn) to forecast user engagement trends, achieving **85% accuracy**.

 – Published findings in the **Journal of Data Science Research** as a co-author.
 – Presented research at the University Data Science Symposium, earning **Best Poster Presentation Award**.

PROJECTS

Crime Analytics Dashboard   *Python, Tableau, PostgreSQL*
Mar. 2023 – Apr. 2023
 – Developed a dashboard to visualize crime trends and patterns across major U.S. cities.
 – Integrated PostgreSQL database with crime data from **15+ years**, enabling in-depth analysis.
 – Implemented geospatial analysis to map crime hotspots, aiding law enforcement decision-making.
 – Received **4.9/5 user ratings** during stakeholder presentations for its usability and impact.

TweetMood: Social Media Sentiment Analysis   *Python, Flask, NLP*
Jan. 2023 – Mar. 2023
 – Built a web app to analyze sentiment in tweets using NLP techniques and machine learning models.
 – Trained sentiment classifiers with **90% accuracy** on a dataset of 500,000+ labeled tweets.
 – Developed a Flask-based API for real-time sentiment analysis and visualization.
 – Deployed the app on Heroku, attracting **1,000+ active users** in the first month.

Retail Forecasting Tool   *R, Shiny, ggplot2*
Oct. 2022 – Dec. 2022
 – Created a forecasting tool to predict retail sales trends using time series analysis.
 – Implemented ARIMA models to improve prediction accuracy by **25%**.
 – Developed interactive Shiny dashboards for data visualization and decision support.
 – Collaborated with a team of 3 to deliver the project ahead of schedule, garnering positive feedback from stakeholders.

TECHNICAL SKILLS

Languages: Python, R, SQL, JavaScript

Frameworks: Flask, Shiny, scikit-learn

Tools: Tableau, PostgreSQL, AWS, Git

Technologies: NLP, Machine Learning, Data Visualization, Time Series Analysis