

Eyram Akabua

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EXPERIENCE

Data Scientist (Data Analyst)

Pittsburgh Paints Company

March 2023 - March 2025, Pittsburgh, PA

- Managed data workflows for tinting software across 1,500+ retail locations using Python scripts, reducing quarterly update time and maintaining system connectivity.
- Led PRISM, a color matching ML project analyzing 500,000+ colors with pandas, scikit-learn, and Alchemite, resulting in 86.4% reduction in raw data storage and a classification system projected to improve processing time by 22% and save \$38.9K+ annually.
- Created PRISM production roadmap for Color Lab end users, covering CI/CD pipeline design, feature expansion plans, data collection strategy for model retraining, and Azure/AlchemiteAPI deployment.
- Designed ML model architecture enabling future transfer learning capabilities across multiple colorant lines and base materials.
- Presented data insights to R&D leads and management; recognized and nominated for 2024 Digital Champion award for communicating technical findings to drive project support.

Data Engineering Fellow

Correlation One

April 2023 - July 2023, Remote

- Developed automated extraction system with Python for US-GAAP taxonomy data and raw financial data for performance ratio (ROE, ROA, NIM) calculation; presented findings to 50+ industry professionals.
- Led development of end-to-end risk analysis system, integrating SEC EDGAR data, financial statements, and banking ratios into AWS (S3, Redshift)/Airflow pipeline.
- Spearheaded research and KPI development for novel risk indicators combining Capital Adequacy Ratio with Diamond-Dybvig model metrics for predictive modeling.
- Selected from 80,000+ applicants (<10% acceptance rate) for intensive data engineering fellowship.

Research Engineer

PPG Industries

May 2022 - March 2023, Pittsburgh, PA

- Created ETL infrastructure consolidating 3,200+ experimental results into an Excel database with automated querying and appending capabilities to support ML-driven lab research.
- Collaborated with Data Science team to develop ML models with Alchemite to optimize experimental design; leveraged historical data to automate research workflow and reduce experiment iteration cycles.
- Designed Python scripts for R&D bottleneck elimination, demonstrating potential for seamless image data integration and increased prototype characterization throughput.
- Implemented predictive analytics with JMP to evaluate 80+ prototype paint formulations, driving data-informed R&D decisions.

EDUCATION

B.S. in Chemical Engineering | Minor in Computer Science

University of Pittsburgh • Pittsburgh, PA • 2021 • 3.40

- 3rd Place Winner - Georgia Tech SURE Research Symposium (2021)
- 1st Place Winner: OXE Chemical Engineering Symposium (2019), AIChE Undergraduate Poster Competition (2018)
- Pitt Women's Rugby Football Team Forward - Four-year starter, team Webmaster and Treasurer; two-time Defensive MVP ("Most Likely to Wreck You" 2019, 2020)

SKILLS

Languages & Development: Python, SQL, Linux/Unix, Java, C++, JavaScript; Familiar with Flask

Platforms & Libraries: AWS, BeautifulSoup, Docker, Git, Matplotlib, NumPy, Pandas, Scikit-learn, Tensorflow; Familiar with PyTorch

Methods: Feature Engineering, Data Cleaning and Preprocessing, EDA (Exploratory Data Analysis), Data Visualization