Nyack, NY Portfolio: github.io.jbecker7326

EDUCATION

• Georgia Institute of Technology

Master of Science in Computer Science; GPA: 4.0

Atlanta, GA

Aug. 2022 - Present

Email: jbecker7326@gmail.com

Mobile: +1-845-826-4836

• State University of New York at New Paltz

Bachelor of Science in Environmental Geochemistry; GPA: 3.5

the delivery of meaningful insights and innovative business solutions.

New Paltz, NY Aug. 2013 - May 2017

Experience

• Anchor QEA

Woodcliff Lake, NJ Mar. 2020 - Aug. 2022

Data Scientist

o Collaborated with project executives to comprehend business problems and propose custom dashboard designs with

- real-time database integration, tailored to client-specific requirements. o Leveraged Python to develop data extraction, cleansing, visualization, and statistical analysis algorithms, enabling
- Maintained strong accountability for data completeness and quality control in relational databases, emphasizing meticulous attention to detail and data management skills.
- Strategically optimized ETL pipelines to gather, prepare, cleanse, and transform client data, resulting in significant efficiency gains in data workflows between data science and project management teams.

• Grid Logistics

Kearny, NJ

Data Analyst

Aug. 2018 - Mar. 2020

- o Developed algorithms with R and LaTeX for generating statistical analysis tables, formatted spreadsheets, and PDF summary reports, contributing to data-driven decision-making processes.
- Designed SQL queries and analyzed environmental compliance reports to provide actionable recommendations for stakeholders, demonstrating strong problem-solving and consulting skills.
- Fostered client relationships through proactive site visits, frequent meetings, and meticulous management of soil logistics, ensuring seamless communication and customer satisfaction.

Projects

• Molecular Graph Network

Links: GitHub, Report

July 2023

- o Implemented a Graph Neural Network (GNN) architecture using PyTorch Geometric for precise node classification within the protein-protein interaction (PPI) dataset.
- Designed a novel combination of Molecular Fingerprint Convolution (MFConv) and Graph Isomorphism Network (GIN) layers, resulting in an F1 score within 5 points of the benchmark while reducing runtime by 67%.

• Yelp Fake Review Analysis

Links: GitHub, Video Presentation

May 2023

- o Deployed various machine learning classifiers, including SVM, KNN, Naive Bayes, Logistic Regression, and Random Forest, via scikit-learn to effectively classify fake reviews within the Kaggle Yelp dataset.
- Engineered innovative features for sentiment analysis with TF-IDF and implemented oversampling with SMOTE, resulting in a notable 12% increase in recall.
- o Developed a user-friendly, interactive visualization application employing D3.js as an analytical tool to uncover sectors negatively impacted by fake reviews within suburban populations.

Skills

- Languages: Python 3 (Matplotlib, NumPy, Pandas, PySpark, PyTorch, scikit-learn, SciPy, SQLite), R (data.table, envstats, ggplot2), SQL (PostgreSQL, T-SQL), JavaScript, Java, Scala, C#, HTML5, CSS.
- Technologies: Amazon Web Services (AWS), DataBricks, Docker, Git, Google Cloud Platform (GCP), Tableau.