RYAN BREEN

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EXPERIENCE

Allegheny Health Network | Data Analyst Apr 2023 – Aug 2024

*Managed grant and operational business requirements with 5 non-profit healthcare programs for data reporting

*Developed and maintained Tableau dashboards alongside 20 + operational reports using advanced SQL and Excel

*Achieved *Top Performer* status by completing certification in Epic Medical Database certification in 2 months

*10 + years experience working in medical laboratories prior to career change with phenomenal attention to detail

EDUCATION

Eastern University | Data Science - Master's in Science Jun 2021 – Aug 2022

*Achieved a 4.00 GPA in Machine-Learning, Database Theory, Data Visualization, and Python Programming courses

*Formal training in SQL, Python, Pandas, Scikit-Learn Machine Learning, Tableau, Qlik Sense, R, and GitHub

*Accomplished 100% grading for Final Capstone Project using SQL, Python, and HTML for a full stack web application

SKILLS

ETL/Wrangling	Tableau	Data Validation	Clustering Algorithms	Random Forest/XGBoost
SQL Server	QlikSense	R Statistics/Markdown	Regression Analysis	Classification Models
SSMS	Power BI	Jupyter	Anomaly Detection	Neural Networks
DataBricks	PowerPoint	Large Data Sets	Client Requirements	GitHub/Git

PROJECTS

Personal Portfolio: https://ryansstacks.github.io/RyanStacks.github.io/

A showcase of various projects with links to GitHub page.

Medical Laboratory Web Application - Tableau | SQL | Python | Flask
Advanced SQL scripting (135 pages) using Triggers, Functions, CTEs, and Materialized Views to create a dynamic database that stores clinical laboratory data used for a Python web application using Flask. The web application allows users to dynamically place orders, view statistics, pull lab result tables, and scan QR barcodes using html based front end.

Deep Learning Classification with Keras Convolutional Neural Networks – Keras | Machine Learning
Keras Convolutional Neural Networks algorithm is trained to classify cells as malignant or benign based on textural and coloristic attributes of the cells. When introduced to large number of training images, the classifier may identify malignant cells with 98% accuracy!

Predicting Emergency Room Length of Stay with Regression Models – Scikit Learn | Python | Jupyter
An end-to-end comparison of Random Forest, Support Vector Machines, and Linear Regression is performed using hospital data (60000 rows) to create models that predict a patient's length of stay at a hospital. The models are built using Python's Scikit Learn machine learning modules.

CERTIFICATIONS

Epic Cogito Data Modeling and Clarity|Caboodle SQL Databases - Expires Aug 2028