Nolan Phillips

ntphillips10@gmail.com • (716) 946-9158 • https://nolantphillips.github.io/Portfolio

EDUCATION

SUNY University at Buffalo, Buffalo, NY 2024

Bachelor of Science in Civil Engineering, 3.89/4.0 GPA

SUNY University at Buffalo, Buffalo, NY 2025

Master of Science in Engineering Science (Data Science), 3.83/4.0 GPA

PROFESSIONAL EXPERIENCE

Trautman Associates, Buffalo, NY 2022 – 2025
Civil/Structural Engineer

PROJECTS

Hospital Readmission Classification November 2024
- Used logistic regression to classify a patient as being readmitted to a hospital based on several different factors.
- Conducted EDA and data preprocessing using R.

Loan Application Classification December 2024
- Built machine learning models using logistic regression, ridge classification, random forest, and XGBoost classification to classify a loan application as accepted or denied.

NHL Expected Goals Model December 2024
- Scraped data from the NHL and created xG model based on Fenwick shots
- Cleaned data and created logistic regression and xGBoost classifiers.

Taxi Ride Demand Prediction February 2025
- Scraped data for NYC Yellow Cab rides and created an end-to-end machine learning project
- Cleaned data and stored it in feature store and created LightGBM models to predict demand for the upcoming hour. Created dashboards in PowerBI from data queried in AWS Athena. Created Streamlit apps to showcase predictions and monitoring of models.
- Iteration of project also done using Snowflake, also used NYC Citi Bike data to repeat process.

NHL Player Evaluation Analysis April 2025
- Scraped play-by-play data from the NHL and created season statistics for players. Players were split into position groups for analysis. Dataset was loaded in R and data cleaning was done in R. Used K-means clustering to cluster players together based on several statistics to yield groups of players based on production and type of play.

SKILLS

Programming languages: Python, R, SQL, MATLAB

Tools/Platforms: Experience with AWS Platform, Snowflake, PowerBI