

Griffin Munhall

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EDUCATION

Worcester Polytechnic Institute (WPI), Worcester, MA

Bachelor of Science, Computer Science, 05/2027

Bachelor of Science, Data Science, 05/2027

GPA 3.73

Related Course: Machine Learning, Computational Data Intelligence, Data Visualization

Cushing Academy, Ashburnham, MA

High School Diploma, 05/2023

SKILLS

Programming Languages: Python, C, C++, Java, SQL, HTML, CSS

Libraries: Scrapy, BeautifulSoup, Pandas, Matplotlib, Scikit-Learn, Requests, Selenium, NumPy

Machine Learning Algorithms: Linear Regression, Logistic Regression, Ridge, Random Forest, SVM, KNN, XGBoost

Software: Tableau, PowerBI

RELATED PROJECTS and EXPERIENCE

Computational Data Intelligence Project, WPI

Yelp Data Challenge, January 2024 – Present

- Developed a multi-label classification model to predict business attributes (e.g., Wi-Fi availability, kid-friendliness) using NLP techniques on Yelp review and tip data, getting a 93% prediction accuracy.
- Engineered custom features by applying sentiment analysis, named entity recognition (NER), and text preprocessing techniques, enhancing model interpretability and reducing noise in the dataset.
- Collaborated in a team of 4 to present findings in a 15-minute presentation, submit a 10-page report, and develop a GitHub repository

Personal Project, WPI

Media Transparency Project, December 2024 – Present

- Built and evaluated machine learning models (XGBoost, Random Forest, SVR, Ridge) for news bias classification, achieving a mean absolute error (MAE) of 1.6 on a 20-point scale, effectively quantifying media bias
- Developed a consensus-based aggregation algorithm to assess political news accuracy by clustering articles via DBSCAN with cosine distance, weighting sources based on factuality ratings, and generating multi-document summaries using transformer-based NLP models
- Developing a financial ownership network analysis using SEC EDGAR filings to map corporate ties between media outlets and stakeholders, aiming to uncover potential biases in news reporting.

Bryant University, Smithfield, RI

Research Assistant, November 2024 – Present

- Scraped and collected 100,000+ data points on academic publishing using BeautifulSoup, Selenium, and REST APIs, from IEEE, CrossRef, PubMed, and OpenAlex leading to 3 comprehensive datasets for analysis
- Cleaned and manipulated datasets using Python (Pandas and NumPy), improving data integrity and consistency for analysis
- Conducted exploratory data analysis (EDA) on academic publishing trends, utilizing descriptive statistics, correlation analysis, and visualizations, preparing the data for model selection and training

Data Annotation Tech, Remote

Data Annotator, April 2024 – November 2024

- Fact-checked thousands of AI-generated conversations, ensuring accuracy and reliability across diverse scenarios
- Refined generative AI responses by analyzing user interactions and adjusting prompts, improving clarity and engagement in future conversations
- Conducted AI safety evaluations, identifying ethical concerns and mitigating potential biases, promoting safer AI deployment