

MATTHEW MAITLAND

1 Forest Park Lane
Ithaca NY, 14853

(914)-646-9991
mjm638@cornell.edu

Education

Cornell University, Bowers College of Computing and Information Science, Ithaca, NY
Bachelor of Science in Information Science, Dean's List (Spring 2022, Fall 2022) GPA: 3.46
Data Science and Interactive Technology Concentrations
CET Academic Program, Florence, Italy

Fall 2020 - Spring 2024

Spring 2023

Professional Experience

Cisco Systems, New York, NY, *Data Science Technical Intern*

Summer 2023

- Designed and implemented a “playground” using Python for users to explore sustainable network configurations
- Generated design documentation, responded to iterations of feedback from team, and presented to 150 colleagues, including executives
- Leveraged both static internal and user inputted data to generate digestible insights into network-derived emissions
- Used Gradio for UI, and Numpy, Pandas, Matplotlib for back-end and insights

Barstool Sports, New York, NY, *Data Analyst Intern*

Spring 2022 - Fall 2022

- Created Python models to predict and maximize podcast success based on personnel and logistical data
- Used Numpy/Pandas to clean data, Scikit-Learn to make predictions, and Matplotlib to visualize data
- Identified, collected, and cleaned relevant metadata from Barstool Sports' videos and podcasts using Microsoft Excel and Google Sheets
- Assisted in the UI/UX design of an internal platform that centralizes metadata from Barstool Sports' videos and Podcasts

HoverGG, Remote - *UI/UX Tester*

Summer 2020

- Tested new and existing features of a social media platform tailored to identifying and promoting up-and-coming streamers in gaming/ESports
- Facilitated word-of-mouth advertising within the gaming/ESports community through in-game lobbies and discord channels

Personal Projects

Natural Language Processing Research of Presidential Speeches to Identify Political Party Affiliation/Philosophy Shift **Winter 2024 - Present**

- Through ensemble sentiment analysis/embedded topic modeling on public speeches, intend to cluster presidents into modern political parties
- Aim to compare modeled labels with true labels in order to map how the speech style and party philosophies have changed over time
- Apply NLP/Deep Learning techniques such as Zero-Shot Learning, tokenization and TfIdf Vectorization

Spotify Song Popularity Predictor

Fall 2022

- Built/trained a Random Forest Regressor to predict song popularity given features from Spotify's API with <4% error rate
- Used K-Means Clustering to identify features with relevant affects on our target variable
- Accessed Spotify API in order to generate random datasets for training and testing

Academic Experience

Cornell Sports Analytics Club, Ithaca, NY - *Member*

Fall 2021 - Present

- Create detailed statistical reports and data visualization models within the field of sports while exploring various tools like Python and Excel
- Leading a project to analyze the most significant factors in determining the line in NFL games

Sigma Phi Society Epsilon of New York, Ithaca, NY - *Vice President, House Manager, D&I Chair*

Winter 2021 - Present

- Manage a 40-person housing facility while corresponding with University Facilities and Sigma Phi Alumni, and overseeing a \$500,000 budget
- Spearhead Diversity and Inclusion efforts including organizing cultural events and workshops

Relevant Coursework

Machine Learning for Business, Advanced Data Science, NLP Research in Humanities, Large Language Models, Data-Driven Web Applications, R Analytics, Statistical Theory and Application, Object-Oriented Programming and Data Structures, Business Intelligence Systems, Web Development (Front and Back-End), Intro to Computing using Python, Choices and Consequences in Computing, Calculus, Privacy/Security in the Data Economy

Skills

Technical Skills: Python, R, SQL, Java, C++, JavaScript, HTML, CSS, PHP, d3, Numpy, Pandas, Scikit-Learn, Matplotlib, Git, Excel, Tableau, Boomi, WhereScape, PyTorch, TensorFlow

General Skills: Machine Learning, Data Visualization, NLP, Data Engineering, Data Collection/Preprocessing/Integration, Statistical Analysis, Data Insights Generation, Data Structures and Algorithms, Leadership, Collaborative Problem Solving, Technical and Non-Technical Communication

Interests: Artificial Intelligence/LLMs, Data Visualization, Sustainability, Sports Analytics, Freeskiing, Lacrosse, Ice Hockey, Music

Languages: English (First Language), Spanish (Proficient), Italian (Conversational, Immersive), French (Conversational, Classroom)