

MATTHEW MAITLAND

30 Flag Hill Road
Chappaqua NY, 10514

matthewmaitland.com

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

Education

Cornell Tech , New York, NY Master of Engineering in Computer Science	August 2024 - May 2025
Cornell University, Bowers College of Computing and Information Science , Ithaca, NY Bachelor of Science in Information Science, Data Science Concentration Degree Honors: Cum Laude, Dean's List (Spring 2022, Fall 2022, Spring 2024) GPA: 3.5	August 2020 - May 2024
CET Academic Program , Florence, Italy	January 2023 - May 2023

Professional Experience

Cisco Systems , New York, NY, <i>Data Science Technical Intern</i>	May 2023 - August 2023
<ul style="list-style-type: none">Designed and implemented a "playground" using Python for users to explore sustainable network configurationsGenerated design documentation, responded to iterations of feedback from team, and presented to 150 colleagues, including executivesLeveraged both static internal and user inputted data to generate digestible insights into network-derived emissionsUsed Gradio for UI, and Numpy, Pandas, Matplotlib for back-end and insights	
Barstool Sports , New York, NY, <i>Data Analyst Intern</i>	April 2022 - August 2022
<ul style="list-style-type: none">Created Python models to predict and maximize podcast success based on personnel and logistical dataUsed Numpy/Pandas to clean data, Scikit-Learn to make predictions, and Matplotlib to visualize dataIdentified, collected, and cleaned relevant metadata from Barstool Sports' videos and podcasts using Microsoft Excel and Google SheetsAssisted in the UI/UX design of an internal platform that centralizes metadata from Barstool Sports' videos and Podcasts	
HoverGG , Remote - <i>UI/UX Tester</i>	May 2020 - June 2020
<ul style="list-style-type: none">Tested new and existing features of a social media platform tailored to identifying and promoting up-and-coming streamers in gaming/ESportsFacilitated word-of-mouth advertising within the gaming/ESports community through in-game lobbies and discord channels	

Personal Projects

NLP Research of Presidential Speeches to Identify Political Party Affiliation/Philosophy Shift (PDE)	January 2024 - May 2024
<ul style="list-style-type: none">Through ensemble sentiment analysis/embedded topic modeling on public speeches, clustered presidents into modern political partiesCompared modeled labels with true labels in order to map how the speech style and party philosophies have changed over timeApplied NLP/Deep Learning techniques such as Zero-Shot Learning, tokenization and TfIdf Vectorization	
Spotify Song Popularity Predictor	August 2024 - November 2024
<ul style="list-style-type: none">Built/trained a Random Forest Regressor to predict song popularity given features from Spotify's API with <4% error rateUsed K-Means Clustering to identify features with relevant affects on our target variableAccessed Spotify API in order to generate random datasets for training and testing	

Academic Experience

Cornell Sports Analytics Club , Ithaca, NY - <i>Member</i>	September 2021 - September 2023
<ul style="list-style-type: none">Create detailed statistical reports and data visualization models within the field of sports while exploring various tools like Python and ExcelLeading a project to analyze the most significant factors in determining the line in NFL games	
Sigma Phi Society Epsilon of New York , Ithaca, NY - <i>Vice President, House Manager, D&I Chair</i>	January 2021 - May 2024
<ul style="list-style-type: none">Manage a 40-person housing facility while corresponding with University Facilities and Sigma Phi Alumni, and overseeing a \$500,000 budgetSpearhead Diversity and Inclusion efforts including organizing cultural events and workshops	

Relevant Coursework

Machine Learning (ML) Engineering, Applied ML, Statistics for ML, ML for Business Applications, 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), 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