Harlan Hutton

M.S. in Data Science Student

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PROFILE

Student with a passion for machine learning well-prepared for strategic and collaborative problem solving with a liberal arts skillset of efficient communication, quick adaptation, and attention to detail. Able to think creatively and playfully.

EDUCATION

New York University - M.S. in Data Science, expected May 2022

Focus on Big Data. Relevant coursework: Introduction to Data Science, Probability & Statistics for Data Science, Programming for Data Science, Machine Learning & Computational Statistics, Big Data, Text as Data. To be completed Fall 2021: Natural Language Processing, Deep Learning. Member of Women in Data Science.

Rhodes College – B.A. Cum Laude in Business, minor in Mathematics, May 2020

Recipient of the John M. Planchon Award for Excellence in Business, awarded to most outstanding graduating business major chosen by business faculty. Focus in finance. Graduated with 3.81 cumulative GPA, 4.00 major GPA, and 3.80 minor GPA.

EXPERIENCE

Data Science Intern, Q2 Software – Summer 2021

Member of data science team at PrecisionLender, a Q2 software company that automates negotiation solutions for banks. Pioneered a client-level recommender system using primarily PySpark that suggests the "next best" product the client should recommend to each of its relationships. Once in production, the model will allow clients to deepen relationships and increase profit through cross-selling. Pre-production work included integration testing and writing unit tests.

Fellow, Rhodes Institute for Regional Studies – Summer 2019

Created website, www.loudwomenproject.com, documenting a self-composed timeline of Memphis music history using the stories of women who paved its way. Began process of writing biographies for each woman and linking her work to her specific page.

PROJECTS / RESEARCH

Presence of Noise in Learned Simulators for Astrophysical Turbulence - Ongoing

Working as guest researcher with the Flatiron Institute and collaborators in DeepMind to replicate deep learning networks that provide comparable performance to traditional simulators of turbulence in astrophysical systems. Experimenting with the presence of noise in training data to improve performance.

Million Song Dataset Recommender System - May 2021

Created recommender system using PySpark's ALS method to learn latent factor representations for users and items. Final model produces top 500 songs for each user and is evaluated on mean average precision. Created comparison to a single-machine implementation using lightfm.

Predicting Restaurant Health Violations Using Yelp Reviews - December 2020

Developed classification model to predict restaurants that may violate food and safety guidelines. Created dataset using web scraper that pulled Yelp reviews and combined them with restaurant inspection data. Final model is XGBoost with hyperparameters tuned using cross-validation and a weighted F1 score of 0.856.

SKILLS

Python, R, Spark, pytorch, scikit-learn, matplotlib, pandas, numpy, SQL, Java, ggplot, dplyr, Git, Machine Learning, Probability & Statistics, Business Acumen, Written & Oral Communication, Problem Solving, Financial Analysis, Hugo, Netlify