Nathan Popper

npopper3@gatech.edu ❖ 214-250-7878 ❖ Atlanta, GA ❖ https://nathan-popper.github.io/

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY ❖ 2023 – Present
- Master of Science in Analytics, George Fellowship Scholar, GPA: 4.0
- Coursework: Computing for Data Analysis, Intro Analytics Modeling, Statistical Methods, Analytics for Business, Machine Learning, Regression Analysis

UNIVERSITY OF MICHIGAN ❖ 2017 – 2021
- BA Economics, LSA Honors Program

WORK EXPERIENCE

GRADUATE TEACHING ASSISTANT ❖ 2024 – Present
- Lead office hours and created solution sets for "Computing for Data Analysis"

DALLAS COUNTY HEALTH AND HUMAN SERVICES

DATA MANAGEMENT ❖ 2021 – 2022
- Developed logic functions using R and Excel to identify and revise tens of thousands of duplicate and incorrect database entries, increasing the accuracy of our daily reporting & Tableau dashboards
- Conducted statistical analyses using R to gather time series metrics about the COVID-19 pandemic for use by state and national government agencies

COLLEGE ANALYTICS TEAM LEAD ❖ 2020 – 2021
- Calculated university specific statistics to track and analyze COVID-19 prevalence on each college compus in Dallas County to reduce outbreak risk
- Communicated data driven recommendations directly to college administrators who used findings to create effective infection prevention policies for their students

DATA PROCESSING TEAM LEAD ❖ 2020 – 2022
- Managed a team of 10 people responsible for processing and cleaning all incoming COVID-19 and other communicable disease data for Dallas County (Population 2.5 million)
- Designed and implemented a new, more efficient electronic workflow system that enabled fast integration of new HIPAA-protected COVID-19 data

PROJECTS

Best Buy NLP Competition ❖ 2024
- Created a full NLP text cleaning & linguistic processing pipeline that fed into a TF-IDF SVM text classifier that could classify the topic of a customer service call and provide insight into customers key problems

Popular Song Insight Extraction ❖ 2024
- Synthesized a new dataset by scraping song names from Billboard and matching with data from Spotify API. Then used clustering and visualizations to present the common features of the most popular songs

Piazza Post Topic Classifier ❖ 2021
- Implemented a Bernoulli Naïve Bayes Classifier in C++ that used a bag-or-words framework to identify the subject of student forum posts and increase course organization

TECHNICAL SKILLS

- **Python:** Pandas, BeautifulSoup, scikit-learn, NLTK, Visualizations (Matplotlib, Seaborn)
- **Models:** Linear Regression, Logistic Regression, SVM, Naïve Bayes
- **Other:** Excel, C++, R