

PETE PRITCHARD

☎ 423-800-1887 | ✉ petep@umich.edu | [in linkedin.com/in/pete-pritch/](https://www.linkedin.com/in/pete-pritch/) | github.com/petepritch | 📁 [portfolio](#)

EDUCATION

University of Michigan

MS Applied Statistics

Ann Arbor, MI

Aug. 2023 – May 2025

University of Tennessee

BS Applied Mathematics, BA Economics

Chattanooga, TN

Aug. 2020 – May 2023

EXPERIENCE

NASA

June 2024 – Aug. 2024

Software Engineering Intern

Washington, DC

- Worked with a small, diverse team of interns with expertise in software engineering, UI/UX, strategic communication, and data science/engineering to enhance research and testing capabilities of national wind tunnel facilities
- Used Python to build real-time data applications of operational and test data to provide comprehensive visualizations, reveal patterns and drive more effective decision-making and business outcomes
- Engineered an advanced analytics platform using Python, Google Cloud Storage, and Firestore, deployed via Docker on an existing NASA cloud environment

NASA

June 2023 – Aug. 2023

Data Science Intern

Washington, DC

- Developed and deployed short-term and long-horizon demand forecast models and dashboard using Python (Nixtla) and Plotly Dash, enhancing forecasting accuracy and decision-making
- Created an API wrapper for a 20+ year old SAP database, enabling financial managers to quickly access reports and reducing report generation time by 90%
- Added over 30 SQL queries to the codebase and collaborated on designing a database schema, improving data retrieval efficiency and structure

University of Michigan

Aug. 2023 – Present

Graduate Student Instructor

Ann Arbor, MI

- Leading labs, grading assignments, and providing aid to 60+ students - Introduction to Stats and Data Analysis
- Managing canvas page, scheduling meetings and serving as primary communicator between students and professors
- Received high student satisfaction reports and promoted to Graduate Student Mentor after one semester

University of Tennessee

Feb. 2023 – June 2023

Research Assistant

Chattanooga, TN

- Conducted comprehensive analysis of various statistical and ML techniques to predict viral spread, leveraging large datasets from Google Trends and Covid-19 sources
- Engineered an advanced LSTM network model in R utilizing Keras and TensorFlow libraries to enhance predictive accuracy
- Demonstrated superior model performance by achieving a 15% increase in prediction accuracy over classic time series models like VAR and ARIMA.

PROJECTS

Fantasy Football Helper | [Python](#), [code](#)

Jan. 2024 – Present

- Built a discord chat bot using Python to present weekly power rankings with commentary, playoff odds using Monte Carlo simulations, transactions, and more
- Integrated web scraper with BeautifulSoup4 to allow league members to query NFL player statistics

NHANES | [Python](#), [Scikit-learn](#), [code](#), [report](#)

Jan. 2024 – April 2024

- Investigated the presence of volatile organic compounds (VOCs) in human blood samples and their relationship with various levels of exposure to tobacco products
- Accomplished this objective by leveraging interpretable statistical learning models and thorough data analysis

TECHNICAL SKILLS

Languages: Python, R, SQL (Postgres), C++, Java, HTML/CSS

Developer Tools: Git, Google Cloud Platform, Dataiku, Docker, Looker, Linux

Libraries: Pandas, NumPy, PySpark, PyTorch, Tensorflow, Keras, Scikit-learn, Plotly

Modeling: Supervised Learning, Neural Networks, Clustering, Time Series, Hidden Markov