RACHIT CHADHA

📞 240-554-7989 ✉ rchadha33@gatech.edu 🔗 rachitchadha ⬡ rchadha33 ⬡ rachit-chadha.github.io

Education

Georgia Institute of Technology **Expected Dec 2024**
Master of Science in Computer Science (GPA 3.87) *Atlanta, Georgia*

University of Maryland **May 2020**
Bachelor of Science in Information Science *College Park, Maryland*

Relevant Coursework

- Big Data Systems
- Deep Learning
- Computer Vision
- Data Analytics
- Data Science
- Algorithms
- Machine Learning
- Systems for ML
- Web Applications
- Cloud Computing

Technical Skills

Languages: Python, JavaScript, SQL, HTML/CSS
Dev Tools: VS Code, PowerBI, Tableau, AWS Redshift, AWS Athena, GCP, Microsoft Azure ML, Docker
Frameworks: PyTorch, Sci-kit-Learn, TensorFlow, Pandas, NumPy, REST, MongoDB, MapReduce, Spark, Flask, Node.js

Experience

Graduate Teaching Assistant **Aug. 2024 – Present**
Georgia Institute of Technology *Atlanta, GA*
- Graduate TA for 200+ students in CSE 6242 Data & Visual Analytics co-leading the campus operations under Prof. Duen Horng (Polo) Chau and Dr. Mahdi Roozbahani.
- Developing and testing ML and data mining coursework for HW revision while conducting weekly office hours.

Data Science Co-Op **May 2024 – Aug. 2024**
Turner & Townsend *New York City, NY*
- Utilized Pandas, NumPy & predictive models like Prophet for wrangling and feature engineering to forecast completion.
- Developed stored procedures using Oracle PL-SQL to facilitate efficient & optimal migration of data to a new database.
- Lead development of end-to-end PowerBI dynamic dashboard utilizing DAX modeling to visualize seasonality & forecast.

Data Analyst II **Apr. 2022 – Jun. 2023**
AMCL *New York City, NY*
- Engineered an ETL pipeline & dynamic dashboards, enhancing asset management, impacting over 116K NYC residents.
- Utilized Python, PL-SQL, and PowerBI to design statistical metrics for live monitoring of asset performance and costs.
- Automated real-time data extraction using BS4, sk-learn, & MongoDB, focusing on climate data to predict impacts.

Research Assistant **Aug. 2019 – May 2020**
University of Maryland *College Park, MD*
- Developed an analytics engine playable case study at University of Maryland's HCI Lab with Dr. Elizabeth Bonsignore.
- Utilized Git, Python REST & MySQL to devise a learning analytics system integrating it to the University's AWS cloud.

Analytics Intern **May 2019 – Aug. 2019**
Intel *Singapore*
- Utilized Python, Twitch API and PowerBI to scrape, analyze and visualize data from the APAC eSports industry.
- Collaborated with UX and marketing teams of APJ and ANZ to audit the digital marketing content of Intel products on 13 specialty accounts for A/B testing via HTML/CSS, JavaScript and SEO strategies.

Projects

Analyzing Payouts and Forecasting Volumes | *Time-series Prophet model, Pandas, NumPy, Seaborn* **Apr. 2024**
- Developed a comprehensive analysis and forecasting model for Stripe Connect payouts using Python and Prophet model.
- Employed time-series and wrangling techniques to predict payouts, providing strategic insights into platform growth.

Project Tidal Web App | *JavaScript, MapBox.JS, Python, MongoDB, Node.js, PySpark* **Feb. 2024**
- Real time site identification tool: Awarded overall winner at Georgia Tech Hackathon amongst 1100+ participants.
- Utilized geospatial analytics to forecast tidal power as a key to curbing rising energy costs and emissions.

DataCleaner Python Library | *Pandas, NumPy Sk-Learn, SciPy, Seaborn* **Oct. 2023**
- Developed an automated data pre-processing library for mechanistic Data Cleaning & Interestingness based Pruning.
- Authored a research paper that elaborates on its capabilities in managing missing data, outliers, and encoding features.