




# RACHIT CHADHA

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## Education

### Georgia Institute of Technology

*Master of Science in Computer Science (GPA 3.87)*

**Expected Dec. 2024**

*Atlanta, Georgia*

### University of Maryland

*Bachelor of Science in Information Science*

**May 2020**

*College Park, Maryland*

## Relevant Coursework

- Big Data Analytics
- Database Systems
- Computer Vision
- Systems for ML
- Data Science
- Algorithms
- Machine Learning
- NLP
- 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 Studio, 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.
- Developing & testing machine learning, cloud platforms and big-data assignments 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 ETL migration 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 Asia-Pacific eSports industry.
- Employed A/B testing and SEO strategies to audit digital marketing content of Intel products on 13 speciality accounts.

## Projects

### Multimodal Sketch to Image Generation | *PyTorch, ManiGAN, TediGAN, TextCLIP, ControlNET*

**May 2024**

- Employed advanced generative models such as Pix2Pix, TediGAN, and TextCLIP to develop a multimodal pipeline integrating sketches and textual descriptions for high-fidelity facial image generation.

### Product Growth Study: Payouts and Forecasting | *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: Real-Time Geospatial Analytics | *JavaScript, 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.

### Research: Pre-processing & Pruning for Automated Vizualizations | *Pandas, NumPy Sk-Learn, SciPy*

**Oct. 2023**

- Developed an automated data pre-processing tool for mechanistic data cleaning & interestingness based Pruning.
- Authored a research paper that elaborates on its capabilities in managing missing data, outliers, and encoding features.