RACHIT CHADHA

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EDUCATION

Georgia Institute of Technology, Atlanta, GA   Aug 2023 - May 2025
MS. Computer Science | Machine Learning Specialization

University of Maryland, College Park, MD   Aug 2016 - May 2020
B.S. Computer & Information Science | Data Science specialization

Relevant Courses: Machine Learning (A+) | Data Visualization Analytics (A+) | Technology Infrastructure & Architecture (A) | Decision Making Analysis (A-) | Competitive Business Intelligence (A) | Database Design & Modeling (A-) | Privacy & Ethics Big Data (A)

Certifications: Institute of Asset Management | Google Digital Marketing | Oracle Primavera Project Management

Skills: Python (Machine Learning and Analytics) | Power BI DAX | Tableau | SQL (MS / Oracle) | D3 JavaScript | Spark | AWS | Git | HTML | CSS | Agile Project Management | ISO 55001 Asset Management | MS Office Suite

PROFESSIONAL EXPERIENCE

Senior Data Analyst, Turner & Townsend AMCL, NYC   Apr 2022 – Jun 2023
- Lead data analytics for capital projects with the US Housing & Urban Development for NYC Housing Authority's ~200K housing assets.
- Created dynamic dashboards for a $3.3B asset cluster using Power BI, sourced via SQL to monitor & improve asset management capabilities.
- Data migration & manipulation with PowerBI DAX & Python for designing performance metrics to track asset outage, performance & cost.
- Automated weather data scraping to monitor precipitation impacts using Python's BS4 & Selenium hosted on the Google Cloud Platform.
- Developed Python script to automate scraping & clustering of asset condition information from periodic reports based on similarity groups using Python's SharePlum, Pandas & Scikit-learn libraries.

Project Controls Engineer, Aegis Project Controls, DC   Aug 2020 – Mar 2022
- Consulted clients on engineering projects related to energy, education & government, with individual projects valued at over $200 million.
- Designed automated Dashboards using PowerBI & Power Query to generate insights & recommendations on project health, cost & progress.
- Developed Python scripts to collect contractor project data sourcing from a P6 & MS Project SQL-hosted server to a virtual cloud environment.

Research Assistant, University of Maryland, MD   Aug 2019 – May 2020
- Designed a web simulation with an agile approach to teach cybersecurity & collaboration in STEM, funded by the National Science Foundation.
- Devised a learning analytics system using REST API interface with Python & MySQL & integrated it into the University's AWS infrastructure.
- Spearheaded a research initiative to scrape, visualize & present game mechanics' data to Brigham Young & Indiana partner universities.

Insights Analyst Intern – eSports, Intel Corporation, Singapore   May 2019 - Aug 2019
- Formulated project plan for Intel Extreme Masters 2020 to increase reach across Asia Pacific's 40 million eSports viewers.
- Developed, managed & executed 2 product strategy campaigns for APJ & ANZ regions within the Games & eSports team.
- Scraped, analyzed & visualized data for the eSports industry from Twitch & Steam via Python, Twitch API & Power BI.

Marketing Research Intern, Hewlett-Packard, India   Jun 2018 - Aug 2018
- Cultivated a customer and competitor analysis to support market strategy for HP's handheld printer Sprocket.
- Forecasted unfulfilled needs in the $40B Indian wedding industry to promote Sprocket at Asia's largest wedding exhibition, Wedding Asia.
- Researched and analyzed trends, internal intelligence and industry reports to gather insights, resulting in a database of 4,000+ corporates to consolidate information for maturing campaign

CO-CURRICULAR ACTIVITIES

Graduate Student Member, Georgia Institute of Technology, Atlanta, GA   Aug 2023 - Present
- Data Science @ Georgia Tech (DSGT) | The Energy Club @ Georgia Tech

Teaching Assistant, University of Maryland, College Park, MD   Aug 2019 - Dec 2019
- Facilitated discussions & graded assignments for Organizational Design at the University of Maryland iSchool
- Assisted with the material generation, lesson plan development, exam distribution & mentoring & held office hours for 50 undergraduate students

PROJECTS

- **Computer Vision Sign Language Detection** Developed a program to detect ASL hand-sign images, captured on webcam and trained using Google Teachable Machine Tensorflow Keras Model. Used OpenCV library for efficient data collection, image transformation and model testing.
- **Customer Churn Classification Model** Performed data cleaning & feature engineering using Python's Scikit-learn & TensorFlow to classify the churn rate of Telco customers using supervised learning models such as Light GBM, Logistic Regression & Support Vector Classifier.
- **Marketing Web Analytics** Analyzed user data for an e-learning platform using Python's NumPy, Pandas, Seaborn & Matplotlib libraries to generate insights for increasing user engagement by tracking web KPIs such as churn rate, bounce rate, page exits, visits, searches, etc.
- **Data.Gov Tableau Web App** Developed a web application with map visualizations using Tableau API of housing violations in PG county, MD, for prospective homeowners. The server uses the Fetch API to GET information from PG County open-data portal visualized with Tableau.
- **SQL Database Design** Collected data on the original 1999 Yu-Gi-Oh cards, created tables & an Entity Relationship Diagram & developed a database using MySQL Workbench. Also, created varied views & queries to pull attributes as per user needs.