

Rachit Chadha

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EDUCATION

Georgia Institute of Technology

Aug 23 - Present

- MS. in Computer Science
- GPA: 4.0
- Distinction Courses: Machine Learning, Data & Visual Analytics, Big Data Processing & Cloud Computing, Human-in-the-loop Data Analytics
- Extra-Curriculars: Data Science Georgia Tech (DSGT), Energy Club at Georgia Tech

University of Maryland

Aug 16 - May 20

- B.S in Information Science
- Academic Honors, Data Science Specialization
- Distinction Courses: Object Oriented Programming, Data Science Techniques, Database Design & Modeling, Dynamic Web Applications, Decision Making Analysis, Cloud Computing, Technology Infrastructure & Architecture, Data Visualization

EXPERIENCE

Senior Data Analyst | Turner & Townsend

Apr 22 - Jun 23

New York, USA

- Lead data analytics for capital projects with the US Department of Housing & Urban Development to monitor NYC Housing Assets
- Independently created & deployed dynamic dashboards as a one-stop-shop product to improve NYC asset management capabilities
- Data migration & manipulation with PowerBI, SQL & Python for designing performance metrics to track asset outage, performance & cost
- Automated scraping of precipitation data to predict impact & clustered asset condition information based on similarity groups using Python Pandas, SharePlum, & Scikit-learn libraries.

Research Assistant | University of Maryland

Aug 19 - May 20

Maryland, USA

- Analytics Engine Playable Case Study at University of Maryland's HCI Lab with Dr. Elizabeth Bonsignore and Dr. Phil Piety, funded by NSF
- Devised a learning analytics system with Python REST API & MySQL integrated to the University's AWS infrastructure
- Spearheaded a research initiative to scrape, visualize & present game mechanics' data to BYU & Indiana partner universities

Marketing Analyst Intern, eSports | Intel

May 19 - Aug 19

Singapore

- Formulated project plan for Intel Extreme Masters 2020 to increase reach across Asia Pacific's 40 million eSports viewers
- Scraped, analyzed & visualized data from the eSports industry via Python, Twitch API & Power BI to generate actionable insights
- Developed, managed & executed 2 product strategy campaigns for APJ & ANZ regions within the Games & eSports Marketing team
- Collaborated with UX and marketing teams of APJ and ANZ to audit the digital marketing content of Intel products on 13 specialty accounts

Other Experience: Project Controls Engineer at Aegis, Teaching Assistant at University of Maryland, Program Ambassador at UMD iSchool
Market Research Intern at HP Inc.

PROJECTS

Inter Language Font Style Transfer - Deep Learning

- Developed a solution to translate visual text within the real world and other media, preserving the original style, color, and font of the text
- Utilized cGAN models like Pix2Pix and CycleGAN for style transfer between Japanese and English characters, achieving seamless integration into the original media

Sign Language Detection - Computer Vision

- Developed a model to detect live ASL hand signs, captured on webcam and trained using Tensorflow Keras
- Used OpenCV library for efficient data collection, image transformation, and model testing

Customer Churn - Supervised Learning

- Performed data cleaning & feature engineering using Python Scikit-learn & TensorFlow to classify the churn rate of Telco customers
- Used supervised learning models such as Light GBM, Logistic Regression & Support Vector Classifier

SEM Web Analytics - Exploratory Data Analysis

- Analyzed user data for an e-learning platform using Python's NumPy, Pandas, Seaborn & Matplotlib libraries
- Generated insights for increasing user engagement by tracking web KPIs such as churn rate, bounce rate, page exits, visits, searches, etc

Housing Violations Heatmap - Interactive Web Application

- Developed a web application with map visualizations using Tableau API of housing violations in PG county, MD, for future homeowners
- The Node.js server uses the Fetch API to GET information from the PG County open-data portal visualized with Tableau to generate insights

Home Price Estimation - Statistical Regression

- Exploratory data analysis and feature engineering to estimate home prices using statistical regression techniques
- Python libraries used include Pandas, Matplotlib, Seaborn, Scipy, and Scikit-Learn

Yu-Gi-Oh Database - Database Design & Modeling

- Collected data on the original 1999 Yu-Gi-Oh cards, created tables & an Entity Relationship Diagram to develop a database using MySQL.
- Created varied views and queries to pull unique card attributes as per user needs

SKILLS & CERTIFICATIONS

Skills: Python (PyTorch, TensorFlow, Scikit-Learn), Deep Learning, SQL, Hadoop, Spark, R, Data Visualization (Tableau, PowerBI, Javascript D3), Docker, DataBricks, HTML/CSS, Cloud Computing (Azure, AWS, GCP), Web Scraping, Git, Technical Consulting, Agile Project Management

Certifications: Certified Asset Management Professional (IAM), Oracle Project Management (Primavera), Digital Marketing (Google)