

Advait Gogte

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EDUCATION

George Mason University, Fairfax, VA

Expected May 2023

Master of Science in Computer Science with Concentration in Machine Learning

(GPA 3.7/4.0)

Relevant Courses: Machine Learning, Mining of Massive Datasets using MapReduce, Component Based Software Development, User Interface Design and Development, Object Oriented Software Design and Construction (Java)

Fr. C. Rodrigues Institute of Technology, University of Mumbai, India

June 2021

Bachelor of Computer Engineering with *Distinction*.

(CGPA 8.83/10)

Relevant Courses: Data Mining and Warehousing, Operating Systems, Computer Architecture, Distributed Computing, System Security, Theoretical Computer Science, System Programming, Compiler Construction, Cloud Computing, Human-Machine Interaction, Machine Learning.

SKILLS

- **Programming languages:** Python, Java, JavaScript, TypeScript, Shell Script (BASH), SQL, NoSQL, C, C++, and PHP.
- **Web Development:** HTML, CSS, NodeJS, React, Angular, Express, REST, XML, Tailwind CSS.
- **DevOps:** Amazon Web Services (AWS), Oracle ERP Cloud, Git, Docker, Kubernetes, Rancher.
- **Databases:** MongoDB, PostgreSQL, MySQL, DynamoDB.

EXPERIENCE

Graduate Teaching Assistant, George Mason University, VA

(Jan 2023 –Present)

- Guided 70+ students for the course CS468: Secure Programming and Systems, assisted the professor in teaching, grading assignments, homework, and quizzes as well as formulating make-up quizzes, and grading the midterms and final.

Computer Science Grader, George Mason University, VA

(Jan 2022 –Dec 2022)

- Assisted the professor in grading assignments, homework, and quizzes as well as formulating make-up quizzes, and grading the final for various graduate and undergraduate level courses managing 100+ students.

Software Development Intern, Cyret Technologies Inc., VA

(May 2022 –August 2022)

- Engineered a Mobile Application using React Native which served as a consumer application and data intake of analyzing purchasing patterns.
- Built APIs using Express.js for internal communication between client and server extending functionality by 50%.
- Devised and maintained PostgreSQL database, hosted on Oracle Cloud Infrastructure (OCI).
- Developed an admin panel that provided the analytics dashboard, user management & other administrative functions.

PROJECTS

Portfolio

- Designed and developed my own portfolio using React and Tailwind CSS and hosted on AWS.
- Automated the build and deploy processes cutting down the total time by 35% using a shell script.

Steam Sale Scraper

- Built a utility tool web scraper in Python for Steam(<https://store.steampowered.com>) using the HTTP request calls.
- This script generates a CSV file containing original price, discounted price, and the discount percent of 6,000+ titles.

Recommendation Systems

- Developed two Recommendation system in Python optimizing the loss function with ALS, and an item-based CF.
- Combined them to create a hybrid system and tuned the weights for both to check what ratio gave best performance.
- Implemented these systems in PySpark and deployed them on AWS EMR cluster.
- Achieved RMSE of about 0.63 for a dataset of size 20 million.

Deep Artificial Neural Network-based Clean Audio

- Collaborated with a team of 4 to develop a Python web application where users can reduce noise from any audio or video file.
- Developed a CNN based on the U-net architecture for noise reduction with an accuracy of 83%
- Integrated the model in a webapp using Django framework as the backend.

Volunteer

Trip Leader, Mason Recreation – Outdoor Adventures, VA

(July 2022 –May 2023)

- Coordinated in a group of 10+ trip leaders, and led various outdoor events like hikes, rock climbing, standup paddling, skiing in and around Virginia managing 100+ participant.