

# Advait Gogte

Centerville, VA 20120 | [agogte@gmu.edu](mailto:agogte@gmu.edu) | +1 (571)-519-9752 | [linkedin.com/in/advait-gogte/](https://www.linkedin.com/in/advait-gogte/)

## 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

### 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, C, C++, JavaScript, TypeScript, Shell Script (BASH), SQL, NoSQL, and PHP.
- **Web Development:** HTML, CSS, NodeJS, React Native, Angular, Express, REST, XML.
- **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 –May2023)

- 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.

### 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 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

### Classification of Music Genre

- Gathered 1000 audio files sizing up to 1GB, calculated MFCC, spectral centroid, zero crossing rate, and other features.
- Performed feature engineering such as Standardization, rescaling, PCA et al., to try to improve accuracy.
- Used multiple classification models and achieved F1-scores of upto 0.93.

### Steam Sale Scraper

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

### Recommendation Systems

- Developed two Recommendation system 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 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.