

# ADITYA MILIND PANSARE

Atlanta, GA

☎ (470) 601-1597 ✉ [adityapansare@gatech.edu](mailto:adityapansare@gatech.edu) 🌐 [adityapansare.github.io](https://adityapansare.github.io) 📄 [adityapansare](#) 🇺🇸 US Citizen

## Education

### Georgia Institute of Technology

Aug. 2021 – May 2023 (Expected)

Master of Science, Computer Science (MSCS) | **GPA - 4.0**

Atlanta, GA

*Relevant Coursework:* Algorithms, Machine Learning, Deep Learning, Natural Language Processing, Big Data Systems and Analytics, Information Security

### NMIMS Mukesh Patel School of Tech Management & Engg. (MPSTME)

Jun. 2016 – May 2020

Bachelor of Technology, Computer Engineering | Awarded "Meritorious Student" 📄

Mumbai, India

*Relevant Coursework:* Algorithms & Analysis, Databases & Management, Machine Learning, Data Warehousing & Mining, Operating Systems, Computer Architecture

## Experience

### Georgia Institute of Technology

Jan. 2022 – Present

Graduate Teaching Assistant | CS 6675 (Advanced Internet Computing Systems and Applications)

Atlanta, GA

- Member of Professor Dr. Ling Liu's staff; Key responsibilities include facilitating course logistics, grading of course deliverables, and actively addressing student questions.

### Foxmula – The Smart Way 📄

Jun. 2019 – Aug. 2019

Machine Learning and Deep Learning Intern

Bengaluru, India

- Developed a couple of projects where we analyzed 2 large data sets of "Game trends" and "Crime rates" using Unsupervised and Supervised learning algorithms and Deep Learning techniques.
- Utilized Python with TensorFlow, and implemented neural networks, prediction, classification models & visualizations.

## Skills

**Programming Languages:** Python, C++, C, Java, HTML/CSS, JavaScript, SQL, MATLAB, R, Kotlin

**Platforms/Technologies/Frameworks:** Android Studio, SAS, VS Code, Git, Flask, AWS

**Interpersonal/Soft Skills:** Creative Writing, Public Speaking, Leadership, Agile Thinking

## Projects

### Gilbreth - Extracting Flowchart Features into a Structured Representation | [Code </>](#) | [Project Report 📄](#)

Image Processing, Deep Learning, Programming Lang; Python, OpenCV, YOLOv3, LARK Parser

Apr. 2020

- Devised a tool that accepts an image of a flowchart, extracts its features into a knowledgebase, and processes & represents them in a structured graphical representation.
- Facilitated object detection by using Deep Learning to identify shapes (99.82% mAP), lines and arrows (88.14% mAP).
- Used Google Cloud Vision's Optical Character Recognition (OCR) for identifying text present in these flowcharts (84.00% confidence).
- In Beta, we were able to generate Python Code from the Structured Representation, and implemented Flask APIs for using and deploying our DL/ML Models on AWS.

### MusicManaged - A MEEN Stack Web Music Player | [Code </>](#) | [Blog 📄](#)

MEEN Stack [MongoDB, ExpressJS, EJS, NodeJS], JQuery, AJAX, RedHat OpenShift (Deployment)

Nov. 2019

- Designed & Engineered a website which allowed users to manage their music library online by uploading .mp3s and change/review the detected audio metadata to manage song listings.
- Created a streaming module which allowed users to stream music over different networks, devices & configurations.

### Pillbox - Pharmacy on our Phone | [Code </>](#)

Advanced Java, Firebase API, Android SDK, Git

May 2018

- Developed a proof-of-concept Pharmaceutical Marketplace (Online Store) for Android devices (OS 5 and higher).
- Utilised Firebase to implement a NoSQL database to store user information, order history & favourites for user data, admin information, store inventory & order history for admin data.

## Publications

### Detecting Parkinsonian Symptoms using Data Analysis 📄

Mar. 2019

2019 IEEE 5th International Conference for Convergence in Technology (I2CT)

Pune, India

Proposed a multi-modal approach to use 3 different physical markers to detect early onset of Parkinson's Disease while avoiding invasive assessment.