

# ADITYA MILIND PANSARE

Atlanta, GA

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## Education

### Georgia Institute of Technology

Aug. 2021 – Present

Master of Science, Computer Science (MSCS)

Atlanta, GA

Relevant Coursework: Machine Learning, Natural Language Processing, Big Data Systems and Analytics

### 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

### Foxmula – The Smart Way 📄

Jun. 2019 – Aug. 2019

Machine Learning and Deep Learning Intern

Bengaluru, India

- Applied Supervised & Unsupervised Machine Learning algorithms and Deep Learning techniques to complete 2 projects for the organization.
- Used Python with TensorFlow, and implemented neural networks, prediction, classification models & visualizations.

## Projects

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

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).

### 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.

### E-OS - Emulated Operating Systems | [Code </>](#) | [Project Report](#) 📄

C++, Basic Data Structures & Algorithms

Apr. 2018

- Built the Process Management module in a 4-member project to implement a simulation of a Unix-based OS, demonstrating Process Management, Process Schedule, File Management & Shell interfacing.
- Demonstrated usage of 3 different process scheduling algorithms and facilitated the creation of other modules as well.

## Technical Skills

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

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

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

## Publication

### 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.