Aditya Milind Pansare

Atlanta, GA

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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

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
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).

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.

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.