MITAL PATTANI

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EDUCATION

Bachelor of Engineering in Electronics and Telecommunication   **May 2018**
University of Mumbai, Dwarkadas J. Sanghvi College of Engineering, Mumbai, India

WORK EXPERIENCE

Pharmeasy - 91streets Media Technologies Private Limited   **August 2018 - September 2019**
Data scientist

- Worked on solutions for Master data management system data cleaning and warehousing issues by writing SQL queries.
- Development of in-house tools for data clean-up and mapping with front end and back end development using Django, NestJS and NextJS.
- Authored a micro - service used for data transfer between different services and platforms.
- Automated google sheets customization used for dashboard data snapshots, mapping and various ad-hoc requirements.
- Authored web scrapers for different websites for competitive analysis using selenium and Denodo IT Pilot.
- Scripted Cron jobs for data management and data transfer between various systems.

Acuradyne Medical Systems Pvt. Ltd, Indian Institute of Technology, Bombay   **August 2017 - August 2018**
Research Intern

- Conceptualized and worked on developing physiotherapy products using sensor systems, using platforms such as Arduino, Android Studio and Kinect.
- Researched on making a device for pre-ictal epilepsy detection, using feature extraction methods to identify EEG signals commonly observed before the onset of the epileptic attack.
- Developed games to assist physiotherapy exercise, using Kinect for motion detection.

PROJECTS

Smart doodle using neural networks (final year project)

- Hand drawn crude sketches are classified using categories of the corresponding object from a generic dataset.
- Exercised feature detection techniques such as bag of words and neural networks for feature extraction and detection.

Virtual piano using image processing (Paper presented in ICWICOM, Vol 19 Springer, Singapore)

- Hand gesture detection using video camera and image processing is used to detect the position of the finger on the piano keys displayed on the screen. The key to be played is detected by averaging method.

SKILLS & EXPERIENCES

Programming Languages:
Python, NestJS, NodeJS, SQL, C++, C#.

LEADERSHIP ROLES

DJ LIT - Literature Society of DJ Sanghvi College of Engineering   **2015-2017**
Secretary

- One of the founding members of DJ LIT, conceived and organized various literary events around the year as an attempt to promote the interests of fellow students in modern literature and current affairs.
- Founded, authored and managed DJ Sanghvi's official E-newsletter DJVU, that informs the student of the college's events and news.

EXTRA-CURRICULARS

Football: Played and won multiple inter-college football tournaments as a part of DJ Sanghvi's college football team.