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**EDUCATION** 

**Carnegie Mellon University (CMU)** 

Pittsburgh, PA

May 2022

Master of Science in Electrical and Computer Engineering

Selected Coursework: [Machine Learning, Deep Learning]

Ramrao Adik Institute of Technology (RAIT)
Bachelor of Technology in Computer Engineering

Mumbai, Maharashtra, India

August 2018

CGPA: 8.82/10 | 3.8/4

Selected Coursework: [Machine Learning, Artificial Intelligence]

SKILLS

Programming languages: Advanced - Java, Python; Basic - Kotlin, React

Framework/ Platforms: Intermediate - Numpy, Scikit-learn, Pytorch, Pandas; Basic - AWS cloud

Tools: Advanced – Git, Maven, Jira board Languages: Fluent – English, Hindi, Marathi

PROFESSIONAL EXPERIENCE

**Research Assistant** 

Pittsburgh, PA

February 2021 – Present

• Working as a research assistant in a project working on optimization of electronic design automation space.

• Implemented Metaball Genetic Algorithm to solve classification problem resulted in dropped execution time compared to classical algorithm while maintaining the accuracy

## J P MORGAN CHASE & CO.

Software Engineer class II

Carnegie Mellon University

Mumbai, Maharashtra, India July 2018 – January 2021

- Collaborated with senior engineers and product owners to create smart solutions for trade instruction capture
- Developed a generic solution that will support multiple clients with minimal efforts, this reduced on-boarding and logistic time needed for new clients from few days to one day
- Upgraded core transformation engine to support advance data formats such as proto amps and Json which saved manual coding, code replication and reduced the development time from 2 sprints work effort to 3 days
- Coached three new joiners in the team, by introducing and helping out with technical details of the project
- Received Q4-2018 (Excellent performing new joiner) and Q2-2019 (Excellent performer in the team) awards within the team of instruction capture space

## **Precision AutoWorkz**

Mumbai, Maharashtra, India

Intern- Software Engineer

December 2016 - January 2017

- Modernized an automobile assembly shop with a digital solution using this system it was able to report the exact phase of all assembly jobs. It enabled users to trace the estimates and cost in real-time, which reduced the customer support needed from shop by 70%
- Optimized the inventory management which can be determined by storage space and number of unused parts, with an intelligent ordering system that reduced 60% of storage space need and reduced wastage of old parts

**PROJECTS** 

**Face Recognition** 

Pittsburgh, PA

Carnegie Mellon University

February 2021 – March 2021

- Designed and implemented an ResNet to classify and verify image dataset from Kaggle competition.
- Tested this model on 15k faces which achieved 85% accuracy with bottleneck architecture in pytorch.

**Muktangan** Muktangan NGO Mumbai, Maharashtra, India

November 2018 – July 2019

- Reorganized school systems operated under NGO with solution to track student progress and teacher's appraisal
- Provided daily/weekly/monthly intelligent report system which help NGO to predict funding and resources logistic

**Determine Document Relevance using Keyword Extraction (DDRKE)** 

Mumbai, Maharashtra, India

Ramrao Adik Institute of Technology

August 2017 – July 2018

- Implemented a 3-stage search engine to scan-analyze-use the document, designed based on term frequency-inverse document frequency algorithm
- Improvised the algorithm to solve its three anomalies, had published research paper for same in IRJET Journal with 7.52 impact [ref: P-ISSN: 2395-0072]
- Built a chatbot to intelligently answer the questions based on a ranking system and extracted keyword knowledge from the documents

LEADERSHIP

Volunteer; GoodWorks - J P Morgan Chase; Mumbai, Maharashtra, India

November 2018 – January 2019

Technical Team Member; CSI-RAIT; Mumbai, Maharashtra, India

September 2016 – July 2018

Event Head; CSI-RAIT; Mumbai, Maharashtra, India

September 2016 – October 2016

ADDITIONAL EXPERIENCE OR AWARDS/HONORS OR VOLUNTEER WORK

- Volunteered as Subject Matter Expert for Java & Android in 'Code For Good' hackathon held by J P Morgan in 2020
- Learned basics of machine learning by completing Machine Learning course from Andrew NG with 96% accuracy
- Runner-up in Algorithm 3.0 hackathon; designed Android and web app for technical farmer