

# Virang Parekh

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## EDUCATION

**University of Mumbai | Mumbai, IN**

Aug. 2018 – May 2022

*Bachelors of Engineering in Computer Engineering*

9.00 CGPA

**Core Courses:** Algorithms, Operating Systems, Cryptography and Image Processing

## EXPERIENCE

**Android Application and R&D Engineer**

June 2022 – Present

*Samsung Research*

*Noida, IN*

- Developing and maintaining service framework modules for the Samsung Health App.
- Contributed to the development of E2EE for the Samsung Galaxy S24.
- Developed support for E2EE in devices targeting Android 13 and lower.
- Worked with AbstractThreadedSyncAdapter, WorkManager, Cloud Messaging and Coroutines
- Integrated SDKs from stakeholders, including SCloud, Knox Matrix and Samsung Account Client

**Data Analyst Intern**

June 2021 – November 2021

*Tech Mahindra*

*Remote*

- Worked on a Multi-Modal Transportation based project for a 'Pune' specific use case
- Worked on Data Wrangling, Warehousing, Data Modeling, DAX and Querying
- Built simple, lightweight, interactive and easy-to-understand dashboards for Visualizations.

**Software Development and Data Analytics Intern**

September 2020 – December 2020

*Senquire*

*Pune, IN*

- Created a machine vision system for real-time machinery part condition monitoring.
- Implemented multiprocessing, data preprocessing, queuing, and designed a lightweight interface.

## RESEARCH AND PUBLICATIONS

**Performance Analysis of Various Asymmetric Public-key Cryptosystem** | ICPCSN 2022

[Springer Link](#)

**Video-based Micro Expressions Recogn. using Deep and Transfer Learning** | ICDSAI 2022

[Springer Link](#)

## PROJECTS

**Incisive Analysis Of EQ Using AV Data** | *Deep Learning, Transfer Learning and Bi-LSTMs*

Major Project

- Investigated how the MSCEIT and the STAR method work for the measurement of EQ.
- Proposed a succinct approach to automate and digitize the manual process for the same

**OneStop Fashion** | *Django, TensorFlow, OpenCV-2*

[GitHub Link](#)

- A Reverse Image detection system which from the image detects what type of fashion apparel it is.
- Worked on designing the database, web scraping bots and integrating ML models with the software.

**StudVisor** | *Django REST Framework, Sci-kit Learn*

[GitHub Link](#)

- A web based recommendation system which predicts a student's placement opportunity.
- Designed the database, built REST APIs and ML models for prediction and recommendation.

## POSITIONS OF RESPONSIBILITIES

**Placement Coordinator**

August 2021 – May 2022

*Dwarkadas J. Sanghvi College of Engg.*

*Mumbai, IN*

- Assisted Computer Engineering students with job search logistics and support.
- Coordinated between students and recruiters to facilitate a smooth interview process.
- Managed the placement database with student profiles, job stats as well as recruiter feedback.

**DJS Aura**

September 2018 – December 2020

*Dwarkadas J. Sanghvi College of Engg.*

*Mumbai, IN*

- Member of the college's official drama club
- Wrote and performed Street plays around social issues like child abuse and Domestic Violence against women
- Participated and won multiple street play competitions in and around Mumbai.