

# Virang Parekh

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## EDUCATION

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**D. J. Sanghvi College of Engineering, University of Mumbai | IN** Aug. 2018 – May 2022  
*Bachelors of Engineering in Computer Engineering* 9.00 CGPA  
**Core Courses:** Data Structures and Algorithms, Database Management Systems, Operating Systems, Cryptography & System Security, Digital Signals & Image Processing, Machine Learning

## EXPERIENCE

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**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

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**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

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**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

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**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.

**Unicode** September 2019 – May 2022  
*Dwarkadas J. Sanghvi College of Engg.* Mumbai, IN  

- Worked on a solution for managers and salespeople to efficiently track deliverables and stock levels.
- Developed backend REST APIs for location tracking and bill management.
- Organized a seminar for Junior Year students for graduate studies and job prospects

## EXTRA CIRRICULARS

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### **Library Secretary**

July 2019 – June 2020

*Shri Mahavir Jain Vidyalyaya*

*Mumbai, IN*

- Edited and moderated content of the institute's annual magazine
- Worked as a library secretary, promoting Fine and Performing Arts
- Started a weekly book lover's club, trying to inculcate the habit of reading among students

### **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.

## CERTIFICATIONS

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### **Programming Languages & Fundamentals**

- Software Competency (SWC) Test - Professional Grade
- Software Competency (SWC) Test - Advance Grade

### **Software Development & Architecture**

- Unified Model Language & Software Design Diagrams
- Design Patterns in Kotlin
- SOLID Principles and Coding Practices

### **Machine Learning**

- Deep Learning and Neural Networks
- Artificial Intelligence - Intermediate Level

### **Non-Technical**

- Jwff Dyer on Innovation
- Emotional Intelligence at Workplace
- Managing Anxiety at Workplace

## SKILLS & TECHNOLOGIES

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**Programming Languages:** C, Java, Kotlin, Python and JavaScript

**Source Control & DevOps:** Git, Perforce Helix, Docker, Heroku, Gradle

**Android Development:** MVVM, Room DB, Coroutines, WorkManager, Dagger (DI), SDK Dev, SyncAdapter, Firebase

**Web Frontend Development:** HTML, CSS, Bootstrap, React JS (Beginner)

**Web Backend Development:** Django, RESTful API Development, Cookie-cutter Django, Celery

**Artificial Intelligence:** TensorFlow, Pandas, Numpy, scki-kit learn, OpenCV-2

**Others:** SQLite DB, PostgreSQL, Power BI, Plotly, UiPath (VB.NET), Scrapy