

Virang Parekh

virangparekh73@gmail.com | [LinkedIn](#) | [GitHub](#) | [Google Scholar](#)

EDUCATION

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

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.

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

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

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

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

SKILLS & TECHNOLOGIES

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