

# NAVNEET NAIR

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## Experience

### Oracle (OFSS)

Jun. 2024 – May 2024

*Software Development Engineer Intern*

*Mumbai, Maharashtra*

- Designed and developed the user interface for a workflow conductor service, enhancing the visualization of processes and tasks. Utilized Oracle JET to create an intuitive and efficient UI that improved and streamlined workflow management
- Spearheaded the development of a user-friendly drag-and-drop functionality for workflow diagrams, streamlining the process and enabling users to create workflows with 80% fewer clicks, encouraging higher adoption rates across teams
- Integrated MVVM and Virtual DOM (VDOM) components tailored to different project specifications, utilizing Oracle JET

## Education

### Sardar Patel Institute of Technology

Dec. 2021 – May 2025

*Bachelor of Technology in Computer Science and Engineering (CGPA: 8.77)*

*Mumbai, Maharashtra*

**Coursework:** Advanced Database Management Systems, Distributed Computing, Data Structures & Algorithms, AI/ML, Theory of Computation, Natural Language Processing, Software Testing, Image Processing, Cloud Architecture

## Technical Skills

**Languages:** Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS

**Development Technologies:** NextJS(React), NodeJS, JUnit, MongoDB

**Developer Tools:** Git, Docker, Google Cloud Platform

## Projects

### RailRakhshak | *Machine Learning, Computer Vision, NodeJS, Streamlit*

Oct. 2023

- Devised a computer vision solution to analyze CCTV footage from railway stations, addressing issues such as overcrowding, littering, incident management, and emergencies. Used over 200+ annotated images and videos for training models using Roboflow
- Unified CNN, LSTM and YOLO algorithms to detect and monitor emergency conditions, and utilized distributed computing to reduce processing time of footage by 75%, enhancing real-time response capabilities

### Rakhshak | *Machine Learning, App Development, WhatsApp Bot, LLM, Google Places API*

Feb. 2024

- Engineered an AI-based Emergency Management System with a WhatsApp bot, mobile app, and interactive widget to optimize emergency response, resource allocation, and user interaction reducing the reporting time by 70%
- Integrated dynamic resource allocation and automated alerts through the WhatsApp bot, enhancing the efficiency of emergency management by 70% and improving user engagement and interactivity

### MedScan | *ReactJS, NodeJS, Firebase, Machine Learning, OCR, RAG*

Jan. 2024

- Designed an Electronic Health Record (EHR) Management Platform using ReactJS, NodeJS, and Firebase to centralize and organize health records securely and efficiently
- Used OCR(google vision + tabula) and LLM models(chromaDB + microsoft/phi-2) for data extraction, report summarization, report analysis and diet recommendation and added a RAG model for patients to chat with their report PDFs

### Dukaan | *ReactJS, NodeJS, MySQL, Google Places API*

Apr. 2023

- Developed a comprehensive online kirana platform using ReactJS, NodeJS, and MySQL, integrating local store detection with the Google Places API to enhance user location-based search functionality
- Optimized the platform's performance and user experience through efficient design and implementation, enabling seamless interaction between local store owners and customers

## Achievements

- 1st Place Winner at TSEC Codeissance Hackathon**, a State Level Hackathon conducted by TSEC, Mumbai
- Runner Up at SPIT Hackathon**, a State Level Hackathon conducted by CSI SPIT, Mumbai
- Third Place & ML Winner at TSEC Hacks**, a State Level Hackathon Conducted by TSEC, Mumbai
- Held the position of Chairperson of IEEE SPIT Student Chapter - **managing a team of 35+ people** and received the **Platinum Affiliate Award from IEEE Bombay Section**