

# SHUBH GUPTA

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## EDUCATION

### Bharatiya Vidya Bhavans Sardar Patel Institute of Technology, Mumbai

2021 – 2025

B.Tech - Computer Science and Engineering (AI and ML)- CGPA - 8.9

Mumbai, Maharashtra

## WORK EXPERIENCE

### Fynd (Shopsense Retail Technologies Ltd.)

Jul 2025 – Ongoing

Engineering Intern

Mumbai, Maharashtra

- Designed and deployed a scalable sales outreach automation system using Kafka, MongoDB, cron jobs and async workflows for large-scale data distribution and processing.
- Built a Slack bot for product operations using Boltic, BigQuery, and OpenAI/Google APIs, with contextual memory (mem0) and async workflows to automate tasks like calendar scheduling and real-time query resolution.
- Implemented a robust parsing pipeline for emails and PDFs, extracting structured data from financial documents and integrating with Google Sheets APIs for reliable downstream reporting and simulations.

### Snapwork Technologies

Jan 2025 – May 2025

Software Engineering Intern

Mumbai, Maharashtra

- Built a Knowledge Graph-powered RAG system for financial documents using Python and Neo4j.
- Built and deployed a React dashboard POC for an agent banking solution on Snapwork servers.

### Koita Center for Digital Health, IIT Bombay

Jan 2024 – June 2024

AI Research Intern

Mumbai, Maharashtra

- Worked in collaboration with Amazon to develop a RAG model for healthcare in a federated setting.
- Utilized Co-distillation to mitigate class imbalance in Federated Learning [Published at CODS-COMAD 2024].
- Worked with Max Healthcare to develop a breast mammogram density classification model for mass-level screening.
- Developed MedSAGA: Few-shot Memory Efficient Medical Image Segmentation framework [Accepted at ISBI 2025].

### Sardar Patel Institute of Technology

Jun 2023 – Aug 2023

Web Development Intern

Mumbai, Maharashtra

- Developed and deployed modules for the college student portal using the MERN stack, with emphasis on backend architecture and clean UI components.
- Built the Student Achievements page using React, with backend integration through Express and MongoDB.

## PROJECTS

### Nyay: One stop platform for all your legal needs | MERN, AnnoyDB, BERT, Google PaLM 2023

- A lawyer recommendation system to extract user query insights and match them with lawyer profiles.
- Implemented XAI for model explainability and integrated a Lok Adalat feature to involve retired lawyers.

### Fleet Risk Score Prediction using Federated Learning | MERN, Federated Learning, NLTK 2022

- Developed a dashboard which predicts risk score for fleet companies based on the route, vehicle and driver in a federated setup. It also considers review sentiments for risk score prediction.
- Stood second for this project at a national level competition held at Techfest, IIT Bombay.

### MLOps based Bias Identification and Mitigation Pipeline | Streamlit, MLFlow, AIF360 2024

- Bias identification in ML-based heart disease detection pipeline using metrics like disparate index and bias mitigation using techniques like adversarial debiasing.
- Complete pipeline automated using API calls, monitored using MLFlow and presented using Streamlit.

## TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL

Core CS: Data Structures & Algorithms, OOPS, System Design Fundamentals

Backend & Web Technologies: Node.js, Express, REST APIs, React, HTML, CSS

Databases & Data Systems: PostgreSQL, MongoDB, BigQuery, Neo4j, Redis, Kafka

Tools & Practices: Docker, Git, Azure DevOps, Postman, Cron Jobs, Jupyter, MLFlow, GCP, Agile

## ACHIEVEMENTS

- First Place at DataHack 2023 for building the Nyay Platform, DJSCE Mumbai.
- First Place at Data2Knowledge 2024 for developing a Bias Mitigation Pipeline, DJSCE Mumbai.
- First Place in AI for Social Cause Domain, AERAVAT 2024 Hackathon for developing a personalized learning platform using Generative and Predictive AI and the MERN stack, SPIT Mumbai.