

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.