Shivam Singh

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Education

B.Tech in Information Technology Sep 2020 – Present
Manipal Institute of Technology, Manipal CGPA: **7.52**/10

Technical Skills

Languages: Java, C, C++, Python, JavaScript
Frameworks: React, Node.js, Express.js, FastAPI, PyTorch
Web & Databases: HTML, CSS, Bootstrap, MERN, MySQL, MongoDB, Firebase
DevOps & Tools: Git, Docker, VS Code, Postman, AWS
Other: Data Structures, Algorithms, OCR/NLP

Experience

Tech Executive Intern *May 2024 – Jul 2024*
Happy Soul (E-commerce Startup), Mumbai

- Maintained MERN-stack site for **1000+ monthly users** with **99.9% uptime**
- Integrated Razorpay payments & Shiprocket logistics APIs, reducing manual work by **40%**
- Collaborated with QA and product teams to reduce bug resolution time

Technical Projects

Dynamic Crop Recommendation & Profit Estimation *Individual Project, 2025*
Tech: Python, PyTorch, FastAPI (*GitHub Link*)

- Deployed PyTorch MLP via FastAPI achieving **85.2% accuracy** on **15,000 samples**
- Employed Monte Carlo dropout reducing misclassifications by **25%**
- Built a profit-simulation engine forecasting within **±450 INR/ha** over 5-year data

Chat Application with AI Integrations *College Project, 2025*
Tech: Android Studio (Kotlin), Firebase, TensorFlow Lite, OpenAI API (*GitHub Link*)

- Developed real-time messaging app using Firebase Authentication, Firestore, and FCM
- Integrated AI features: GPT-powered Quick Chat and on-device sentiment analysis
- Implemented AES-GCM encryption with Diffie-Hellman key exchange, sub-**200ms latency**

RedactPro – AI Data Redaction *Individual Project, 2024*
Tech: React, Python, Node.js/Express, Docker, TensorFlow (*GitHub Link*)

- Developed OCR/NLP pipeline redacting sensitive data with **95% accuracy**
- Created React UI with real-time feedback; processed **500+ files** in pilot
- Containerized backend using Docker for scalable deployment

Embedded Ultrasonic Sensor System *College Project, 2023*
Tech: LPC1768 MCU (C), HC-SR04 Sensor, Stepper Motor (*GitHub Link*)

- Programmed MCU for stepper-driven ultrasonic scanning with LCD display
- Added keyboard controls improving scan speed and simplifying input

MindfulSurf – Chrome Extension *Hackathon, 2023*
Tech: JavaScript, HTML/CSS, D3.js, Chrome APIs (*GitHub Link*)

- Utilized Chrome WebNavigation, Tabs, and Idle APIs to track active browsing time and idle intervals; stored data locally via `chrome.storage.local`
- Implemented per-site and global daily time budgets; automatically redirected to a customizable block page when limits were exceeded
- Built D3.js-based charts (daily/weekly usage) in popup and options pages, including a heatmap of most-visited sites