



# SHUBHAM MISHRA

shubham.smishra2004@gmail.com | +91 7011442674 | LinkedIn | Github | Leetcode | Portfolio

## EDUCATION

### Netaji Subhas University of Technology Delhi

Bachelor of Technology - ICE | CGPA : 7.8

(2022 - 2026)

## INTERNSHIP EXPERIENCE

### Emertxe Technologies | Embedded systems Intern | [Link](#)

(May 2025 - July 2025)

- Developed and simulated a washing machine embedded system using Embedded C in MPLAB IDE using PIC microcontroller. Utilised PICSimulator IDE to test and validate microcontroller logic for various wash states.
- Programmed timer, CLCD and LEDs from scratch and simulated them using PICSIMLAB for different inputs and observing their output with delays and errors.
- Implemented state machine logic to handle timing, sensor input, and actuator for automated washing cycles. Gained hands-on experience with embedded C programming, real-time system design and debugging.

## PROJECTS

### Mac os style Portfolio | Javascript, React.js, TailwindCSS

(Source Code)

- Built a MacOS-inspired interactive portfolio application from scratch using React, featuring an Apple-style dock, draggable and resizable application windows, and desktop-like user interactions.
- Implemented global state management with Zustand and leveraged Higher-Order Components (HOCs) to create clean, reusable, and scalable React architecture.
- Integrated GSAP-powered animations to deliver smooth UI transitions and enhanced user experience, combining modern frontend engineering practices with polished visual design.

### Real time chat room | Next.js, Redis, TailwindCSS, ElysiaJS

(Source Code)

- Built a real-time private chat platform using Next.js, ElysiaJS, and Redis, supporting invite-only two-user chat rooms with automatic expiration and message cleanup.
- Implemented dynamic routing, custom React hooks, and backend validation to manage user identity, access control, and real-time messaging.
- Designed room lifecycle management with automatic and manual destruction, instantly disconnecting users and wiping all stored messages.

### CLI based chatbot | Python, Google Gemini API, File I/O

(Source Code)

- Built an interactive CLI chatbot using Python, delivering intelligent conversational responses powered by the Google Gemini language model.
- Implemented exit intent detection and a structured feedback workflow, extracting validated user reviews and ratings using Gemini Function Calling.
- Persisted complete chat sessions and user feedback using file-based storage, ensuring reliable session tracking and data logging.

### Fake news prediction system | Python, NLP, Machine learning

(Source Code)

- Developed a fake news detection system using NLP and Logistic Regression, processing 20K+ articles with TF-IDF feature extraction.
- Achieved ~98% accuracy through effective text preprocessing, model training, and evaluation.

## TECHNICAL SKILLS

**Languages:** C++, Java, JavaScript (ES6+), Python, SQL, HTML/CSS

**Libraries & Frameworks:** ReactJS, React Native, NextJS, Tailwind CSS, Nativewind

**Developer Tools:** Git, Appwrite, Firebase, VS Code, Vercel, Netlify, Unity

**Academic Courses:** Data Structures, Algorithms, Database Management Systems, OOPs, Machine Learning, AI

## ACHIEVEMENTS

- Elite + Gold certified in NPTEL with 92% in R Programming and 94% in Internet of Things. [\(Link\)](#)
- Solved 155+ LeetCode problems with 86% acceptance rate. [\(Link\)](#)