

SNEHA BANSAL

7017210793 | ✉ snehabansal481@gmail.com | in | 🌐 | </>

EDUCATION

Bharati Vidyapeeth (Deemed to be University) College of Engineering
B.Tech in Computer Engineering (agg. 9.6 CGPA)

Pune, Maharashtra
August 2022 – Present

SKILLS

Languages: Java, Python, C, HTML, CSS, JavaScript
Frameworks: ReactJS, NextJS, Tailwind CSS, Bootstrap
Databases: MySQL, MongoDB
Technologies: Servlet, JSP
Developer Tools: Git, VS Code, Apache Net Beans IDE

WORK EXPERIENCE

Web Developer Intern

June 2024 – August 2024

Xzect Labs Private Limited

Remote

- Developed a fully responsive **Masco landing page** with HTML, CSS, Bootstrap, and JavaScript, providing a seamless user experience across all devices.
- Engineered a fitness tracker chatbot using the **Replicate API** to interact with users, track fitness activities, and deliver personalized feedback and recommendations.
- Designed a user-friendly interface with **Next.js**, facilitating smooth and intuitive user interactions.
- Constructed a back-end with **Node.js** for handling API requests, incorporating functionality to store user chats in **MongoDB** based on user consent.

PROJECTS

Encryption and Authentication Tool | Python, Tkinter

September 2024 – October 2024

- Utilizes the AES algorithm for **encrypting and decrypting data**, and the SHA-256 algorithm for secure password registration. Supports multiple formats including text, audio, video, files, and images.
- Provides functionalities to **save and load encrypted messages** with a user-friendly interface.

Online Education Website | HTML, CSS, JS, MongoDB 🌐

July 2024 – August 2024

- Implemented features such as **user registration and course enrollment** to enhance the learning experience.
- Leveraged **MongoDB** to store and manage user details, including registration information and course progress.

Hotel Management System | Java, Swing, MySQL

March 2024 – April 2024

- Directed the development of the Hotel Management System, incorporating features such as **room management, booking system, and payment receipt generation**.
- Applied **JDBC** for database connectivity and executed complex queries to manage data efficiently.
- Formulated a user-friendly GUI with the **Swing library** to enhance usability for hotel staff and management.

Page Replacement Algorithm Visualization | Python, Tkinter, Matplotlib, Pygame

January 2024 – March 2024

- Developed a project to simulate and visualize various page replacement algorithms with a **Tkinter-based GUI**.
- Executed **FIFO, LRU, and Optimal algorithms**, showcasing real-time process visualizations and performance metrics with Matplotlib.
- Incorporated sound notifications for page hits and misses using **Pygame**, enhancing user interaction.

Railway Management System | C++, File Handling

September 2023 – October 2023

- Built a comprehensive Railway Management System using **C++ and File Handling** for data storage.
- Integrated features such as **user authentication, ticket booking and cancellation, train management, and report generation**, enhancing data security and access control.

CERTIFICATIONS

Data Science For Engineer® – NPTEL 🌐

July 2024 – September 2024

Introduction to Machine Learning® – Coursera 🌐

August 2023 – September 2023

Data Structure and Algorithm Using Python® – NPTEL 🌐

July 2023 – September 2023

Basics of JavaScript Programming-Self-Paced Program 🌐

June 2023 – July 2023

Google Drive Clone Using HTML and Material CSS Bootcamp-® – Microsoft 🌐

September 2022 – October 2023