BHAVESH SAINI

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EDUCATION

B Tech in CSE

Mumbai University Aug 2021 - May 2025

CERTIFICATIONS

- **Completed Java and DSA** Link
- **Completed JavaScript Mern Full Stack** Link
- **Completed MySQL** Link
- **Completed Python Developer** Link
- **Completed Natural Language Processing (NLP)** Link
- **Completed Machine Learning & Flask Deployment** Link

SKILLS

• **Programming:**
Java (DSA), Python, SQL
• **Data Engineering & Analytics:**
MySQL, PL/SQL,SQlite3, Machine Learning, NLP
• **Web & Software Development:**
JavaScript (MERN Stack), React, Flask, Node.js, OOP, DSA , Operating Systems
• **Technologies & Tools:**
AWS, Spring, Hibernate, JSP
• **Soft Skills:**
Leadership, Problem-Solving, Communication

PROJECTS

1.Login System with Doubt Submission Portal

Developed a responsive and secure web-based login system featuring user authentication (sign-up, login, password recovery) using Firebase Authentication. Integrated Firestore to store and manage user-submitted doubts in real-time. Leveraged Firebase Cloud Functions to automate email notifications upon doubt submission, ensuring efficient communication.

The system provides a seamless interface for both users and administrators, enhancing user experience and backend efficiency.

2.Student CGPA Tracker (Python Tkinter + SQLite)

Created a standalone desktop application that enables students to input academic details and track semester-wise performance. Used SQLite for efficient local data storage and Tkinter for building an interactive GUI. Implemented bar chart visualizations to display CGPA trends and integrated a feature to generate downloadable PDF reports, supporting clear academic insights and documentation.

3. Laptop Price Prediction Web Application

Developed a machine learning-powered web application that predicts laptop prices based on key specifications including brand, processor, RAM, storage, and country of purchase. Employed regression algorithms using Scikit-learn and Pandas for model training and prediction. Built the frontend with HTML, CSS, and JavaScript, and integrated the ML model with a Flask-based backend. Designed to assist users in making informed purchasing decisions by estimating prices dynamically based on input features.

4. Student Management System (Java Swing + MySQL)

Developed a desktop-based Student Management System using Java Swing for the user interface and MySQL for backend data storage. Enabled full CRUD operations (Create, Read, Update, Delete) with proper validation for student roll numbers, names, and marks. Utilized JDBC for seamless integration between the Java application and the MySQL database. The application features an intuitive GUI with clearly structured layouts and robust input validation to maintain data integrity, ensuring efficient management of student records.

5. Tour Recommendation System (Flask + React + Machine Learning)

Built a personalized travel recommendation web application that suggests destinations based on user preferences such as budget, interests, and travel dates. Implemented K-Means clustering and TF-IDF with cosine similarity to match user profiles with ideal destinations. The frontend was developed using React for a dynamic user experience, while the Flask backend handled ML processing and API communication. Integrated features include a destination search bar, budget sliders, and a map interface for enhanced interactivity.

6. Heart Disease Prediction System (Machine Learning with Flask)

Designed a web-based application that predicts the likelihood of heart disease using user medical data such as age, cholesterol level, blood pressure, and more. Utilized machine learning models including logistic regression and random forest trained on the Heart_Disease_Prediction dataset. Developed the backend using Flask to serve predictions through a user-friendly web interface. Aimed to assist users in assessing health risks and promoting early medical consultation.

INTERNSHIPS

1.JavaSpark Solutions Link

Duration: 1 Month (Jan - Feb)

- Developed Java-based applications focusing on object-oriented design.
- Implemented basic CRUD operations and gained familiarity with JDBC for database connectivity.
- Participated in collaborative coding and debugging sessions with the development team.

2.Mernix Consulting Link

Duration: 1 Month (Feb - Mar)

- Built dynamic web applications using MongoDB, Express.js, React, and Node.js.
- Contributed to front-end UI design and RESTful API integration.
- Enhanced skills in responsive design, component-based development, and backend logic.

3.Pythonic Lab Link

Duration: 1 Month (Mar – Apr)

- Developed Python-based applications with GUI elements and data management.
- Focused on logic building, code optimization, and user interaction workflows.
- Gained hands-on experience with core Python libraries and application structuring.