

# Simran

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## EDUCATION

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- **Vellore Institute of Technology** Bhopal, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 8.36* 2022 – 2026
- **St. John's School** Chandauli, India  
*ICSE: 82%* 2018
- **Univereal Public School** Chandauli, India  
*CBSE: 76%* 2021

## SKILLS

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- **Programming Languages** Python, Html, CSS, JavaScript, SQL, Java
- **Cloud Platforms** AWS, Google Cloud Platform, Microsoft Azure, IBM Cloud
- **Frameworks and Libraries** Streamlit, React.js, Next.js, Node.js
- **Tools and Technologies** MongoDB, Docker, GitHub, OpenAI.

## PROJECTS

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### Movie Recommender System (Jun 2025 – Present):

- Developed and deployed a personalized movie recommender system using collaborative filtering and content-based filtering techniques.
- Implemented user-based and item-based recommendation algorithms to deliver tailored movie suggestions.
- Utilized Python, Pandas, and Scikit-Learn for data preprocessing, feature engineering, and similarity computations.
- Built an interactive web interface for the recommender system using Streamlit, enabling real-time recommendations.
- Successfully deployed the application on a cloud platform, making it publicly accessible for end-users.

### CraftConnect – Local Services Platform (Feb 2025 – May 2025):

- Built a scalable, full-stack platform on the **FReMP stack** connecting users with verified professionals, increasing booking rates by **45%** through an enhanced, modernized UI/UX.
- Integrated an **agentic LLM-powered chatbot using IBM Watsonx**, orchestrated via LangFlow, enabling users to perform real-time task executions through dynamic API calls to the backend.
- Implemented secure **JWT-based authentication**, MongoDB-powered data management, and a seamless payment portal, optimizing system performance for **500+ concurrent users**.

### Hospital Management System (Jan 2025 – Mar 2025):

- Developed a comprehensive hospital management system to streamline patient records, doctor appointments, and billing processes.
- Implemented role-based access control (RBAC) to manage secure access for doctors, patients, and administrators.
- Integrated a robust database for efficient storage, retrieval, and management of sensitive patient information.
- Automated appointment scheduling and medical record handling, significantly improving operational efficiency.

## EXPERIENCE

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- **Indian Space Lab - Intern** Dec 2024 – Jan 2025
  - **Satellite Data Analysis:** Developed a framework for automated quality control of satellite data, detecting over 1,000 anomalies per month and ensuring data integrity for downstream applications.

## INDUSTRIAL INTERNSHIP AND CERTIFICATION

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- Microsoft Certified: Azure AI Fundamentals (Jun 2025)
- AWS Solutions Architect - Associate Internship Program (May 2025)
- GEN AI Using IBM Watsonx, IBM (May 2025)
- Career Essentials in Data Analysis by Microsoft and LinkedIn (November 2024)