

# Sagar Porwal

[E-mail](#)

[LinkedIn](#)

Phone - +91-9829448835

[GitHub](#)

## PROFESSIONAL SKILLS

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- **Languages:** Python, HTML/CSS, JavaScript. React.js, Node.js
- **Developer Tools:** Git/GitHub, MATLAB, Visual Studio, Postman, VS Code.
- **Databases:** MySQL, MongoDB

## EDUCATION

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**VIT Bhopal University**, *CGPA: 8.46*

*Bachelor of Technology in Computer Science and Engineering*

Bhopal, India

August 2023 - May 2027

**Lady Anusuiya Singhanian Educational Academy**, *Percentage: 76.8%*

Rajasthan, India

April 2021 - April 2023

## EXPERIENCE

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**GSSoC Extd' 24**

September 2024 - November 2024

- Completed the Postman API Fundamentals Student Expert Course and earned the Badge.
- Work on various Open-source problems in GSSoC Extd.

## ACHIEVEMENTS

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**HACKTOBERFEST**

October 2024 - November 2024

- Raised 4/4 Pull request in this event.
- Won all the four Badges in this event.

**Ninja Slay Ground 2.0**

- Completed all the three levels of this event hosted by Coding Ninja.
- Continuous 21 Days coding challenge.

### Other Achievements

- Participated in Arthneeti 4.0 organized by Indian Institute of Management (IIM), Nagpur.

## PROJECTS

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### HridyaVayu: AI-Powered Asthma Care System

- A proactive asthma management system using real-time environmental data and AI predictions.
- Integrates user health profiles, quiz responses, and API-fetched air quality metrics.
- Alerts users when asthma risk exceeds a threshold (score  $\geq 0.6$ ).
- Designed with React, Flask, and TensorFlow to improve respiratory health outcomes.

### Med Prior

- **Developed an AI-powered medical chatbot** using NLP and machine learning to analyse user symptoms and provide personalized health advisories.
- **Integrated real-time doctor booking system** based on user location or pin code, including appointment scheduling and downloadable confirmation reports.
- Engineered and fine-tuned a cutting-edge technology using **React.js, Next.js, Geolocation API, Firebase Authentication and Realtime Database, Python**.
- **Implemented automated health risk scoring and emergency detection** using conversation analysis, improving triage efficiency and response prioritization.
- **This project was made for Health-Hack 2025, an inter-college hackathon organized by VIT Bhopal University and John Hopkins University.**

### ProctorShield: Advanced Exam Monitoring System

- **An AI-powered proctoring system using computer vision and audio analysis to ensure exam integrity.**
- **Features real-time face detection, noise monitoring, and tab-switch detection to prevent cheating.**
- **Built with OpenCV, Flask, and Python for seamless monitoring and automated alerts.**
- **Enhances remote exam security by logging violations and providing scalable solutions for institutions.**