

# SAMBHAV KIRAN SHAH

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## Education

### VIT Bhopal University

B.Tech in Computer Science and Engineering

Oct 2022 – Present

CGPA: 8.38 / 10

## Technical Skills

**Programming & Web Technologies:** Python, Java, JavaScript, SQL, HTML, CSS

**Machine Learning & AI:** Machine Learning, Deep Learning, Generative AI, Model Optimization

**Databases:** MySQL, MongoDB

**Tools & Data Visualization:** VS Code, Jupyter Notebook, Power Bi, MS Excel

## Projects

### Neurodegenerative Disease Detection using RNN | Python, Deep Learning, RNN

2024

- Developed an RNN-based model to analyze sequential medical data and predict neurodegenerative diseases.
- Performed data preprocessing and feature extraction on 5,000+ patient records to improve data quality.
- Improved model accuracy by approximately 18% through hyperparameter tuning and model optimization.

### Digital Academic Monitoring System | Next.js, MongoDB, Web Development

2024

- Built a scalable academic monitoring system for MP Government Schools managing attendance and student records.
- Optimized MongoDB queries using indexing and normalization, reducing data retrieval time by nearly 60%.
- Implemented role-based access control supporting 3+ user roles with real-time data synchronization.

### Potato Disease Detection using CNN | Python, CNN, Deep Learning

2023

- Designed a CNN-based image classification model to detect potato leaf diseases from plant images.
- Trained the model on 2,000+ labeled leaf images using data augmentation techniques.
- Achieved over 90% classification accuracy on validation data for real-world agricultural use cases.

## Certifications

- Machine Learning A-Z: AI, Python & R + ChatGPT Prize – Udemy
- AWS Solutions Architect – Ethnus
- Generative AI using IBM WatsonX – IBM

March 2024

May 2025

July 2025

## Extracurricular

### Smart India Hackathon (Internal Round)

2024

Finalist

VIT Bhopal University

- Selected among top teams in the internal round of Smart India Hackathon 2024 at VIT Bhopal.
- Collaborated with a team of 7 members to design and present a problem-solving prototype.
- Applied analytical thinking and technical skills to address a real-world problem statement.

### Health Hackathon

2025

Participant

VIT Bhopal University & Johns Hopkins

- Participated in a health-focused hackathon aimed at developing innovative healthcare solutions.
- Worked in a cross-functional team to design a functional prototype within a limited timeframe.
- Gained exposure to problem-solving, teamwork, and rapid prototyping methodologies.

### House Captain, Prefect & Student Council Member

Student Leadership Roles

SĀNDIPANI School

- Served as House Captain in Class IV, taking responsibility for coordinating house-level activities and events.
- Selected as Prefect in Class VI, supporting teachers in maintaining discipline and assisting in daily school operations.
- Represented students as a Council Member in Class X, contributing to planning and execution of school programs.