

EDUCATION

BTech in Computer Science and Engineering (With Specialization in Health Informatics)	VIT BHOPAL UNIVERSITY	CGPA: 9.07/10	Oct 2022 – Present
CENTRAL HINDU BOYS SCHOOL (B.H.U VARANASI)		PERCENTAGE: 81.4%	July 2019 – Sep 2020

PROJECTS

- NurtureWise Agro** - October 2024 [NurtureWise-Agro](#)
 - Developed the NurtureWise Agro application using Streamlit to provide AI-powered crop disease detection and economic impact analysis, enabling farmers to make data-driven decisions.
 - Implemented secure farmer registration and login functionality with SQLite, allowing users to manage profiles and track field data efficiently.
 - Integrated an AI inference model for real-time crop disease detection from uploaded images, offering actionable insights with high confidence levels.
 - Designed a dedicated module for calculating yield loss percentage, revenue loss, and post-loss income while linking users to resources for disease-specific management and fertilizer recommendations.
- DeFi App (Bit Bank)** June 2024 [Bit Bank](#)

Designed a **decentralized finance (DeFi)** application using **Motoko** on the Dfinity Internet Computer Protocol (ICP).
Features:

 - Real-time asset value updates.
 - Straightforward withdrawal functionality.
 - Seamless top-ups.

Domain: **Blockchain**
- SMART-CAM SECURE**: January 2024 [SMART-CAM SECURE](#)
 - Engineered geo-tagging for privately owned cameras.
 - Monitored and classified vehicle types and tracked vehicle counts.
 - Developed a feature for **detecting camera blockage** and **camera displacement** using multithreading.
 - Sent **SMS alerts** via Vonage API to camera owners and police during incidents.

Domain: **Machine Learning, Computer Vision**

HACKATHONS

- RAJASTHAN POLICE HACKATHON**: Participated as a **finalist** in the Rajasthan Police Hackathon 1.0, organized by the **Rajasthan government**.
 - Selected as **one of 500 teams** out of **9,000** for the 36-hour long finals.
 - Engineered a robust camera monitoring system using OpenCV that accurately detects camera blockages and displacements; enhanced operational efficiency by reducing downtime by **25%** and increased data accuracy for surveillance by **15%**
- HACKOTHSAVA 2024**: Shortlisted as a **finalist** in the **national-level** hackathon **Hackothsava 2024** organized by SVITM.
 - Out of **500** teams, only **60** were shortlisted, and we were among them.
 - Developed a **real-time accident detection model**. The model receives input from a camera feed and sends alerts to authorities when an accident is detected.
 - It logs accident data into a database with **attributes** such as Camera ID, location, coordinates, average severity, accident count and day of the week.
 - The model provides data visualization, including **correlation between different attributes**, **geospatial heatmaps**, based on the stored data.
- TENSORCRAFT**: Participated in a hackathon hosted by the **National Institute of Technology Trichy**.
 - Progressed as one of 130 teams out of 400 to the finals.
 - Developed a smart DeFi-bot using Sophia smart contracts integrated with the **æternity smart wallet**.
 - Gained valuable blockchain knowledge and experience despite not qualifying for the final round.

SKILLS

C++, Motoko, JavaScript, Node.js, Mongo DB, React, Bootstrap, Google Cloud Platform, HTML, CSS, MATLAB

LICENSE AND CERTIFICATION

Applied Machine Learning in Python [Link](#) Microsoft AI Skill Challenge [Link](#)
Google Cloud Skill Badges [Link](#)