

## Manthan Awgan

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### Education

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#### Vellore Institute of Technology University, Bhopal

B.Tech, Department of Computer Science and Engineering

September 2024 - Ongoing

CGPA : 8.52

### Technical Skills

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**Languages:** Java, Python, C++, SQL, JavaScript, HTML/CSS

**Frameworks & Libraries:** React, Node.js, Express.js, MediaPipe

**Databases:** MySQL, MongoDB

**AI/ML Tools:** PyTorch, OpenCV, Transformers, pandas, NumPy

**Core CS Skills:** Data Structures & Algorithms, OOP, Cloud Computing, Database Management

**Developer Tools:** Git, VS Code, Kaggle

### Experience

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#### Flood Prediction–Karimganj, Assam

Feb 2025 - Ongoing

Model Development Team

Remote

- Developed a Flood Prediction Model for Karimganj District using satellite and meteorological data; successfully completed and deployed the model for early warning
- Collaborated in multidisciplinary teams, leveraging tools like Python, Pandas, scikit-learn, and Google Earth Engine for geo-based data analysis
- Gained hands-on experience with real-world problem-solving using machine learning, time series modeling, and data preprocessing

#### Crop Yield Predictor – Kitwe, Zimbabwe

Jan 2025 – Feb 2025

Model development team

Remote

- Collected and processed agricultural and environmental data to predict yield for key crops
- Successfully developed the initial model architecture before project termination

### Projects

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#### TriNetra-AI

OpenCV, MediaPipe, Streamlit, Ultralytics-YOLO

[Github](#)

- A real-time video monitoring system that identifies potential security threats using computer vision and machine learning.
- Includes features like multiple detection modes, adjustable confidence, flexible input source, Configurable warning system, real time status, annotated video feed.

#### ClubSphere

React, JavaScript, Typescript,

[Github](#)

- ClubSphere is a modern web application built with React that helps tech clubs, student organizations, and educational groups manage and showcase their events.
- Includes the features like event showcasing, role-based access, event management, responsive design

#### EduNexus

JavaScript, Typescript, HTML, CSS

[Github](#)

- EduNexus is a web application designed to provide educational simulations with an intuitive interface.
- The application connects to a backend simulation engine through RESTful APIs and WebSockets for real-time updates.

### Achievements

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- Winner, InnovateX Hackathon 2025 – team lead
- Top 10 in Solvit 2025 among 150+ teams – team lead