Mohammad Ayan Khan

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# TECHNICAL SKILLS

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

**Technologies**: React.js, Node.js, Express.js, MatLab

# EDUCATION

**Vellore Institute of Technology, Bhopal** CGPA - 7.58

### B.tech, Computer Science Engineering with specialization in AI and ML Oct 2022 – Sept 2026

Relevant Coursework: Data Structures and Algorithm, Python Programming, Object-oriented programming in C++, Java Programming, Foundation of Data Science, Database Management system, Applied Machine Learning

**Kendriya Vidyalaya, Nagpur** CGPA – 7.0

*Grade 12 2020 – 2022*

**Kendriya Vidyalaya, Nagpur** CGPA – 8.4

*Grade 1o 2019 – 2020*

# PROJECTS

**Weed Detector** Feb 2024 – May 2024

### Deep Learning Model CNN, YOLOv8, HTML, CSS, Js

* Weeds are those plants that are grown where they are not wanted. This problem needs a solution which is early and accurate weed detection for implementing weed control measures. This research discusses on the development of a web application for weed detection using deep neural network models such as YOLO (You Only Look Once).
* Role: Front-End Developer
* Technologies Used: Cascading Style Sheets(CSS), HTML, JavaScript, Convolutional Neural networks(CNN), YOLOv8
* Outcome: We can detect the weeds in the crops using the data sets by uploading the image of the farm

**Smart Irrigation System** June 2024 - Present

### Smart Automation IOT Sensors, ML, React Native.

### Designing a smart irrigation system utilizing IoT sensors and machine learning algorithms to optimize water usage and increase crop yields.

### Developing a web-based interface for real-time monitoring and control, delivering actionable irrigation recommendations to farmers for improved water efficiency.

### Applied multiple public APIs for data analysis to optimize irrigation using real-time soil moisture and weather data.

# AWARDS CERTIFICATIONS

* UMTEB International Scientific Research Congress
* Privacy and Security in Online Social Media (NPTEL)
* The complete web development bootcamp (Udemy)
* Python essentials (VITyarthi)

# Achievements

* Published Conference Paper in the UMTEB 16th International Research Congress
* Qualified for the second round of AdobexGeeksforGeeks (GenSolve) Hackathon.
* 5 star coder in Python on HackerRank.
* Secured 1st place in AdVITya (Kabaddi).