YASHASHVI SRIVASTAVA

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EDUCATION

VIT Bhopal University ,Bhopal ,Madhya Pradesh 07/2022 - 07/2026

B.Tech

Majors in Computer Science & Engineering with specialization in Artificial Intelligence and Machine Learning

Cumulative GPA: 8.46/10

EXPERIENCE

Deep Learning And IOT Intern | MPCST Lab– Madhya Pradesh 11/2023-11/2024

- Worked in a team of 5+ members to develop algorithms and build a model for early detection of diseased crop leaves, integrating the system with Raspberry Pi for automation and pesticide spraying, and connecting it to a drone.
- Managed the project timeline and deliverables, completed the integration of the detection system with the drone on schedule., reducing project delays by 15%.

PROJECTS

AQI-Based Plant Recommendation System | Machine Learning, Python, Dash, MongoDB, Node.js, JavaScript

- Developed a full stack website that analyzes real-time AQI data and recommends personalized indoor plants using a hybrid machine learning model, achieving 92% recommendation accuracy and handling data from 50+ cities.
- Applied an e-commerce feature with 100+ products, enabling users to purchase recommended plants and gardening supplies, resulting in a 45% increase in user engagement and promoting greener indoor environments.

Brain Tumor Detection System | Python, TensorFlow, Keras, Flask

- Implemented a machine learning-based brain tumor detection system using TensorFlow and Keras, employing Convolutional Neural Networks (CNN) for image classification to accurately detect brain tumors from MRI scans..
- Optimized the model to achieve an accuracy of over 90%, significantly improving the speed and reliability of diagnosis compared to traditional manual methods.

Drowsiness Detection System on the basis of Eyes State | Python, TensorFlow, Keras, Flask

- Enforced a real-time drowsiness detection system using OpenCV and CNN, achieving 92% accuracy in classifying open and closed eye states from webcam feed.
- Reduced driver response time by 70% through implementation of audio-visual alerts triggered by prolonged eye closure, enhancing road safety in simulated environments.

EXTRA-CURRICULAR ACTIVITIES

Co-Lead of Research and Development Department,

Android Club , VIT Bhopal University, Bhopal , Madhya Pradesh 05/2024-01/2025

- Successfully managed a team of 10+ members within the Android Club at VIT Bhopal University, led a collaborative environment and encouraging innovation
- Conducted a session as a Speaker in a technical workshop for 50+ participants on integrating IoT devices like Raspberry Pi with databases and machine learning models, enhancing attendee skills and boosting project efficiency by 40%

Contributor, GirlScript Summer of Code

- Collaborated with a diverse team of developers to contribute to 3 open-sources projects, enhanced project functionality.
- Implemented 20 code improvements, with bug fixes , resulting in a 15% increase in project efficiency and user satisfaction.

SKILLS

Languages: Python, Java ,C++

Technical Skills: ReactJs, NodeJs, MongoDB , ExpressJS,Machine Learning, Deep Learning, Computer Vision, Data Science, IoT, Data Analysis

Web Development: HTML, CSS, Javascript

Others: Completed more than 200 questions on Data Structures and Algorithms in Java in GeeksforGeeks , Code360, Leetcode.

Soft Skills :Leadership ,Conflict Management

ACHIEVEMENT

- **Top 10 Finalist** at Sistec Smart India Hackathon 2023, organized by Sagar Institute of Technology.
- The **'AI Powered Pesticides Spraying Drone'** project ranked among the top 5 in Project Expo 2024, organized by VIT Bhopal.
- **Design Patent for Automated Spraying Machine | Patent Number: 418920-001, approved by the Government of India.**