

YASHASHVI SRIVASTAVA

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EDUCATION

VIT Bhopal University

2022 - 2026

B.Tech

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

Cumulative GPA: 8.55/10

EXPERIENCE

Live Project Trainee | Madhya Pradesh Council of Science and Technology(MPCST)– Madhya Pradesh

2023-2024

- Designed an automated pesticide spraying drone system integrated with precision spraying mechanism to target only diseased areas , reducing pesticide usage and environmental impact.
- Trained a CNN model on a dataset of diseased and healthy crop images to classify diseases with high accuracy and later uploaded on the Raspberry Pi to capture real time images for detecting diseased and healthy crops. .

PROJECTS

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

- Deployed 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.
- Implemented 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.

Ayurvedic E-Commerce Website | HTML, CSS, JavaScript, Node.js, Express.js, MongoDB

- Built a full-stack e-commerce platform for Ayurvedic medicine and beauty products, featuring a 100+ product catalog,secure payment gateway, and user authentication, resulting in a 40% improvement in checkout efficiency..
- Integrated Ayurvedic-specific features such as dosha-based product categorization, personalized recommendations, and a tips section, boosting user engagement by 35% and increasing average session duration by 25%.

Interactive NLP Sandbox Dashboard | Python, Streamlit, Flask, Docker

- Engineered a modular NLP dashboard to experiment with multiple tasks including sentiment analysis, summarization, translation and named entity recognition in real time.
- Developed a user-friendly Streamlit frontend with dynamic input handling ,result highlighting and task specific control panels.

EXTRA-CURRICULAR ACTIVITIES

Co-Lead of Research and Development Department,

Android Club , VIT Bhopal University, Bhopal , Madhya Pradesh

2024 - 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%

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 300 questions on Data Structures and Algorithms in Java on Leetcode, 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.**