SPARSH TIWARI

Phone: +91 6394005616 | Email : sparshtiwari544@gmail.com

EXPERIENCE

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

- Directed the integration of machine learning algorithms within the Automated Spraying System to optimize spray patterns; this innovation enhanced coverage accuracy by 25% and minimized wastage across diverse terrains.
- Spearheaded a research initiative alongside two Senior Scholars, employing advanced methodologies, resulting in a 40% increase in positive peer reviews for subsequent publications.

EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh **07/2022 - 07/2026**
B.Tech in Computer Science & Engineering, specialization in Artificial Intelligence and Machine Learning
Cumulative GPA: 8.69/10

Saraswati Vidya Mandir Inter College, Kanpur, Uttar Pradesh **07/2022**
Class XII (CBSE) - Percentage: 91.6%

PROJECTS

Skin Cancer Classification Web App | Python,OpenCV, Streamlit, Flask

- Designed a web-based application for skin cancer classification using Custom CNN model and MobileNetV2 achieving 97% and 98% accuracy in accurately classifying diseases, integrating OpenCV for real-time video processing and image detection , enhancing the system's responsiveness and reliability by 30%.
- Leveraged Flask for a fast and efficient backend, ensuring a seamless user experience..

Dental Appointment Booking Website | Express.js, MongoDB, Node.js, HTML, CSS, JavaScript, Bootstrap

- Developed and deployed a responsive, visually appealing admin dashboard using Bootstrap and custom CSS,to manage patient records, appointment bookings , notifications.and ease of use by 40%.
- Enhanced clinic efficiency by 30%,reduced scheduling errors, and improved patient satisfaction with a modern, user-centric interface.

Billing Management System | Java

- Created a robust Billing Management System using Java, streamlining billing processes and reducing manual errors by 40%.
- Crafted user-friendly interface, enhancing user experience and increasing system adoption by 25%..

Plant Prediction System | Python ,Deep Learning,

- Innovated a plant prediction system by implementing Sequential CNN model achieving 95% accuracy in suggesting plants on the basis of concentration of air.
- Evaluated and visualized model performance with classification reports, ROC curves, and accuracy/loss trends, improving model evaluation precision by 20%.

EXTRACURRICULAR ACTIVITIES

Technical Co-Lead, Android Club
VIT Bhopal University, Bhopal, Madhya Pradesh **05/2024 - 01/2025**

- Led a team of 5+ members, providing innovative ideas for event and project completion and engagement.
- Orchestrated 5+ weekly meetings to plan and organize club events.
- Facilitated 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

Programming Languages: Python, Java,C++
Web Development : HTML,CSS,JavaScript
Technical Skills: MongoDB ExpressJS, NodeJS Computer Vision, Data Analysis , Iot , Data Science,Machine Learning, Deep Learning
Data Analysis : Data visualization, Statistical modeling, Feature engineering
Data Structures & Algorithms: Solved 300+ problems in Java (GeeksforGeeks, Code360)

ACHIEVEMENT

- **Ranked** in the Top 10 at SISTec Hackathon 2024.
- **Authored** a research paper on a Crop Disease Prediction System with fellow scholars.
- The 'AI-powered Pesticide Spraying Drone' was selected among the top 5 projects at Project Expo 2024, organized by VIT Bhopal University.
- **Design Patent for Automated Spraying Machine |** Patent Number: 418920-001