

# VAIBHAV PAWAR

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## Achievement

- **AI/ML Cybersecurity Tool Development - Smart India Hackathon 2023 Winner**
  - Secured victory in the Smart India Hackathon by designing an innovative AI/ML solution for the National Technical Research Organisation.
  - Developed a comprehensive system to identify network compromises, transcending traditional IoC-based detection methods.
- **AI based plant disease identification and prediction- Innovation Week Hackathon First Prize**
  - Green Intellect, the first prize-winning project is an innovative AI-Based Plant Disease Identification and Prediction System.
  - Seamlessly integrating hardware and software, it revolutionizes plant care by providing disease detection, predictive analytics, and fostering community engagement for sustainable crop management
- **Innovative Agricultural Tech - Yantra Hackathon Prize**
  - Prize at the Yantra Hackathon for pioneering a web-based application leveraging ML and IoT.
  - Transformed urban plant care by integrating disease detection, crop prediction, and efficient fertilizer management, enhancing productivity and sustainability.
- **Interviewed For Australian National University (Future Research Talent Program)**
  - Received an opportunity to be interviewed for a program that provides valuable opportunities for emerging research talent from partnered universities to establish international connections and enhance research skills at one of the world's leading institutions. (ANU ranks #34 globally in the QS World University Rankings.)

## Experience

- **Secretary - IoThinc VIT Student Club** *Feb 2022 - present*
  - Managing administrative tasks and facilitating communication within the organization.
  - Proficient in coordinating meetings, handling correspondence, supporting club initiatives ,record-keeping and efficient data management with strong organizational and interpersonal skills.
- **Data Science Intern- Skill Updates** *July 2023 - August 2023*
  - Focused on building advanced machine learning models to predict healthcare analytics
  - Leveraged medical records analysis to identify patterns, forecast disease outcome
- **Campus Ambassador - Pregrad** *June 2023-July 2023*
  - Representing and promoting the initiative on campus
  - Engaging with students, organizing events, and providing information about the Pregrad on campus
- **Project Intern - Inueron.ai** *April 2023 - June 2023*
  - Performed analysis on climate change
  - Employing a diverse range of data analysis tools including Python, SQL, Jupyter Notebook, Excel and Seaborn/Matplotlib

## Projects

- **Multi-Modal Emotion Detection and Analysis System**
  - Developed a Multi-Modal Emotion Detection and Analysis System, utilizing specialized models for images, audio, and videos, to deliver comprehensive emotional insights through a unique fusion approach.
  - Standardized emotion categorization, streamlined user interface, and optimized processing pipelines ensured efficient and user-friendly emotional content analysis.
- **Development of motion amplification video techniques for vibration analysis**
  - Implemented Motion Amplification Video (MAV) technique to visualize and measure vibrations in structures and machinery.
  - Extracted and amplified motion features from video clips, revealing micro-scale defects.
- **Multi-Lingual Legal Information Retrieval System:**
  - Developed a Multi-Lingual Legal Information Retrieval System, utilizing Flask and Pandas, to enable efficient access to legal datasets in English, Hindi, and Marathi.
  - The system supports user input in multiple languages, employs language-specific datasets, and offers transliteration capabilities, ensuring a user-friendly interface and visually enhanced legal information retrieval.
- **Illuminating Rural Progress through Nighttime Light Analysis - Space Hackathon 2023**
  - Project delves into the transformative impact of rural electrification on education, agriculture, and economic conditions.
  - Using captivating visualizations and predictive modeling for the years 2018-2022, it uncovers the relationships between Nighttime Light data and key socio-economic factors, shedding light on the dynamic development landscape across districts and states.

## Skills

- |                   |                      |                    |
|-------------------|----------------------|--------------------|
| • Data Structures | • Python             | • Data Analysis    |
| • C/C++           | • R                  | • Machine Learning |
| • SQL             | • Data Visualization | • Deep Learning    |

## Education

- |                                   |               |                       |
|-----------------------------------|---------------|-----------------------|
| ● CSE Btech - VIT VELLORE         | • CGPA - 9.52 | Sept 2021 - June 2025 |
| ● 12th - Chaitanya Academy        | • CGPA - 9.03 | 2019--2021            |
| ● 10th - Bharat Childerns Academy | • CGPA - 8.93 | 2008-2019             |

## Certifications

- Microsoft Certified: Power Platform App Maker Associate
- Data Science Masters
- AWS Academy Graduate - AWS Academy Cloud Foundations
- Google Data Analytic