

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.
- **Innovative Agricultural Tech - Yantra Hackathon Prize**
 - Prize at the Yantra Hackathon for pioneering a web-based application leveraging ML and IoT.
 - Transformed agriculture and urban plant care by integrating disease detection, crop prediction, and efficient fertilizer management, enhancing productivity and sustainability.
- **Topper in the exam offered by IIT Kanpur through NPTEL!**
 - Emerged as a topper in the exam offered by IIT Kanpur through NPTEL and received an Elite Certificate adorned with a Gold Medal.
- **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

- **Head Of Data Science - IoThinc VIT Student Club** *Feb 2022 - present*
 - Responsible for guiding 1st, 2nd and 3rd Students in field of data science
 - Assigned tasks and provided hands on guidance, fostering their skills in data analysis, machine learning and visualization
- **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.
- **Diabetes Prediction**
 - Developed an ML model for diabetes prediction using the Kaggle Diabetes Dataset, focusing on crucial health metrics like glucose levels, blood pressure, and BMI.
 - The model enables users to input specific health parameters, providing a comprehensive prediction regarding potential diabetes risk.
 - This predictive tool was efficiently deployed on Microsoft Azure, ensuring widespread accessibility and scalability for users seeking early diabetes risk evaluations.

Skills

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

Education

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|-----------------------------------|---------------|-----------------------|
| ● CSE Btech - VIT VELLORE | • CGPA - 9.50 | 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