

Varad Kulkarni

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Education

Vishwakarma Institute of Technology Pune

Bachelor of Science in Computer Science (GPA: 8.45 / 10.00)

Nov 2022 - May 2026

Pune, Maharashtra

- **Relevant Coursework:** Data Structures and Algorithms (Java), MERN stack Web Development, Design and Analysis of Algorithms

Experience

Microsoft Learn Students Club VIT Pune

Content Strategy Head

Pune, Maharashtra

July 2024 - Present

- Develop content strategies to boost engagement and growth.
- Manage content schedules and ensure timely delivery.
- Analyze metrics to refine content strategies.

Web Developer

January 2024 - July 2024

- Built an NGO website for better outreach and donations.
- Led UI/UX workshops for students and club members.
- Presented GenAI and Solidity at a major VIT Pune hackathon.

Publications/Achievements

- Image Forgery Detection Using Machine Learning **8th International Conference on Smart Trends in Computing and Communications (SmartCom'24) - 2024**

Projects

Image Forgery Detection Using Machine Learning | Python, Kaggle Notebook, Virtual GPU

- Utilized Python and Kaggle Notebooks to develop "Image Forgery Detection Using Machine Learning," leveraging Keras and CNN algorithms to detect digital image manipulations effectively, thereby enhancing security and integrity across diverse domains.
- Achieved a remarkable accuracy rate of 93.34 percent in image forgery detection, showcasing the project's efficacy in detecting and mitigating digital image tampering, thereby contributing to bolstering data authenticity and trustworthiness.

Heart Disease Prediction Using Machine Learning | Python

- Implemented Random Forest Algorithm in Python to predict the likelihood of heart disease using a Kaggle dataset, achieving an exceptional accuracy of 99 percent.

Smart Pulse-Oximeter | ESP8266, BlynkIoT

- Designed and developed a smart pulse-oximeter capable of accurately measuring oxygen saturation and heart rate, with real-time display on both the device screen and the Blynk Application, enhancing user accessibility and monitoring capabilities.
- Implemented threshold alert functionality within the system, enabling timely notifications when oxygen saturation or heart rate values exceed preset limits, ensuring prompt intervention and user safety.

Technical Skills

Languages: React Native, C, Java, SQL, Python, Git, Arduino, Solidity

Web Development: MERN Stack, JavaScript, HTML, CSS

Concepts: Compiler, Operating System, Virtual Memory, Artificial Intelligence, Machine Learning, Neural Networks, API, Cloud Computing, System Designs