Varad Kulkarni

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Education

Vishwakarma Institute of Technology Pune	Expected May 2026
Bachelor of Science in Computer Science (GPA: 8.59 / 10.00)	*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	Jan 2026 – Present
Web Developer	*Pune, Maharashtra*

- Developed a fully functioning NGO website for a non-profit organization providing them with a digital platform to showcase their initiatives, engage with stakeholders, and collect donations effectively.
- Conducted workshops on UI/UX design for fellow club members and students, sharing best practices, tools, and techniques to create intuitive and visually engaging web interfaces.
- Conducted a seminar and workshop on GenAI and Solidity for students as of VIT Pune's biggest 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-timedisplay 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