Varad Kulkarni

Phone 9503260577

varadkulkarni172@gmail.com LinkedIn Github

Education

Vishwakarma Institute of Technology Pune Nov 2022 - May 2026
Bachelor of Technology in Computer Science (GPA: 8.47 / 10.00) *Pune, Maharashtra*

- **Relevant Coursework:** DSA (Java), MERN Web Development, Computer Networks, Database Management System

Experience

BMC Software Pune, Maharashtra
Technical Analyst *January 2025 – Present*

- Currently working on Linux, Networking, Docker, and SQL to analyze technical issues and deliver solutions.

Microsoft Learn Students Club VIT Pune Pune, Maharashtra
Core Board Member *January 2024 – Present*

- Organized a 24-hour offline National hackathon at VIT Pune
- Built an NGO website to enhance outreach and streamline donations.

Publications/Achievements

- Winner (3rd Place) - Business and System Innovation Challenge 2024, Indonesia: **Developed an anti-plagiarism software prototype for Binus University**
- Image Forgery Detection Using Machine Learning: **8th International Conference on Smart Trends in Computing and Communications (SmartCom'24) - 2024**
- Contributor at the Social Winter of Code Season 5: **Contributed to various Open Source Repositories with successful implementation of features and bug fixes**

Projects

Mesh-Up | *ESP8266, Java, Android Studio*

- A decentralized mesh network enabling communication without traditional infrastructure like Wifi and Mobile Data, using IoT devices, laptops, and mobiles. It features UDP-based messaging, rebroadcasting, and flood protection for reliable and efficient communication.
- Designed for disaster recovery, remote areas, and events, it ensures real-time connectivity when infrastructure is unavailable.

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.

Technical Skills

Languages: React Native, C, Java, SQL, Python, Git, Arduino, Android, Solidity
Web Development: MERN Stack, JavaScript, HTML, CSS
Operating Systems: CentOS Linux, Docker (Containerization and Deployment)
Concepts: Compilers, Operating Systems, Computer Networks, Artificial Intelligence, Machine Learning, API, System Designs