

Varad Kulkarni

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Education

Vishwakarma Institute of Technology Pune

Bachelor of Technology in Computer Science (GPA: 8.83 / 10.00)

Aug 2022 - June 2026

Pune, Maharashtra

- **Coursework:** DSA (Python3), MERN Stack, Computer Networks, DBMS, LLM's

Experience

BMC Helix

Technical Analyst (Triage Discovery)

Aug 2026 – Present

Pune, Maharashtra

- Joined the Triage Discovery team as a full-time Technical Analyst following completion of the internship.

BMC Helix

Technical Analyst Intern (DevOps)

Jan 2026 – July 2026

Pune, Maharashtra

- Assisted with Kubernetes cluster operations, including setup, configuration, pod management, deployment troubleshooting, YAML-based resource configuration (Deployments, Services, ConfigMaps), application and cluster health monitoring.

Publications and Achievements

- **"Vakya: An Intelligent Framework for Automated Research Synthesis and Conference Recommendation"**, International Conference on Smart and Future Technologies (ICSFT 2026), IEEE. 
- **"Image Forgery Detection Using Machine Learning"**, 8th International Conference on Smart Trends in Computing and Communications (SmartCom'24), Springer, 2024. 
- **Patent Published: Hybrid Routing Emergency Mesh Network System For Disaster Communication** — A decentralized system enabling real-time connectivity using hybrid mesh routing.
- **Winner (3rd Place): Business and System Innovation Challenge 2024, Indonesia** — Developed an anti-plagiarism software prototype for Binus University.

Projects

 **Vakya** | *React.js, FastAPI, MongoDB, Python SDK, LLM APIs*

- Built an LLM-based system that analyzes GitHub codebases and generates citation-aware research papers using transformer-driven NLP pipelines for automated code understanding and structured text generation.

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

- Developed a decentralized mesh network using UDP-based communication, TESLA Authentication and flood protection to enable real-time messaging without internet infrastructure.

Technical Skills

Languages: Python3, Java, SQL, Git

AI/ML: Context Injection and Memory systems, NLP Pipelines, Transformer Models

DevOps and Systems: Linux, YAML, Docker, Kubernetes

Web Development: MERN Stack, JavaScript, HTML, CSS

Volunteering Experience

Microsoft Learn Students Club VIT Pune

Core Board Member and Web Developer

Jan 2024 – May 2025

Pune, Maharashtra

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