

Bachelor of Technology
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Computer Science (Core)
VIT Bhopal University, Kothri Kalan

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Education

Degree/Certificate	Institute/Board	Year
B.Tech., CSE	VIT Bhopal University	2023-2027

Projects

1. HridyaVAyu – Smart IoT-Based Inhaler for Respiratory Health

- Developed an AI-integrated IoT inhaler for asthma and respiratory disease patients that monitors PM2.5, NO₂, SO₂, CO₂, temperature, humidity, and AQI in real time.
- Sends preventive alerts and inhaler usage reminders through a mobile app using a trained ML model based on sensor data.
- Features include “Find My Inhaler,” emergency SOS, and real-time environmental monitoring.
Tech Stack: Python, Flask, ML, IoT, Android, MQTT, Firebase

2. NetSecure – AI-Powered Browser Security Extension

- Created a Chrome extension that uses Google’s malware detection ML model to identify malicious URLs and block phishing websites in real-time.
- Integrated Gemini chatbot for personalized cyber awareness tips and user education.
- Enhances web security by advising users during suspicious activity or unsafe browsing.
Tech Stack: JavaScript, Chrome Extension API, Gemini API, ML, Google Safe Browsing

3. SaveMyTabs – Smart Tab Management Extension

- Built a browser extension that saves idle or unused tabs to reduce RAM usage and improve browser performance.
- Supports smart grouping, session save/restore, and mobile access for seamless cross-device tab recovery.
- Designed to boost productivity and minimize system resource drain.
Tech Stack: JavaScript, Chrome Extension API, LocalStorage, HTML/CSS

4. ArchPkg Helper – Universal CLI Package Installer for Linux

- Developed a cross-distro CLI tool that simplifies Linux package installation using **pacman**, **yay**, or GitHub cloning for unavailable packages.
- Supports intelligent command generation and fallback handling for AUR and Flatpak packages.
- Designed for power users seeking faster and more consistent software installation workflows.
Tech Stack: Python, Shell Script, Linux CLI, Git, pacman/yay/flatpak APIs

Skills

- Programming Languages:** Python, JavaScript, Java, Bash, HTML, CSS, SQL
- Technologies:** IoT, Machine Learning, REST APIs, MQTT, Firebase, Chrome Extensions, Flask, Node.js, GitHub API, Shell Scripting
- Tools:** VS Code, Git, Docker, Postman, Firebase Console, Linux (EndeavourOS, Arch), Jenkins, Ansible, Terraform, Graphite, Grafana

Certifications

- Oracle Certified Java Foundation Associate -**
<https://drive.google.com/file/d/1jHRlc8kpR04Y3AgO3632hLwfJhCGDcFk/view?usp=sharing>
- IBM Certified Devops Fundamentals -**
<https://drive.google.com/file/d/1IHx7TR5ypAIHj9G3-plORUmGkluqjcit/view?usp=sharing>
Month Year

Achievements

- Selected as a **Student Intern with MP Police**, contributed to solving real cybercrime cases and conducted cyber awareness sessions for the public.
- Secured **3rd position in MP Police Cyber Hackathon**, competing against top state-level teams.
- **Shortlisted in Top 10 Teams (200+ entries)** at **HackIndore Hackathon**, organized by Indore Municipal Corporation.
- Participated in **Health-o-Tech Hackathon** at VIT Bhopal, focusing on tech innovations in the healthcare domain.

Positions of Responsibility

- **Head of Software Development**, Team Garvit – Led technical initiatives and development for college EV & innovation events.
- **Technical Head**, Data Science Club (DSC) – Oversaw project development, mentorship, and tech event coordination.
- **Tech Lead**, Insight Club – Guided tech strategy and execution for college-level workshops, sessions, and hackathons.