

# Riya Raulgaonkar

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## EDUCATION

<b>VIT Bhopal University</b> , Bhopal, MP Bachelor of Technology in Computer Science and Engineering (AI/ML Specialization) CGPA: 8.65/10	Sept 2022 - July 2026
<b>Pace Junior Science College</b> , Andheri, Mumbai Class XII	Apr 2020 - May 2022
<b>Universal High School</b> , Dahisar, Mumbai Class X	Apr 2010 - May 2020

## TECHNICAL SKILLS

- Programming Languages:** C, C++, Python, SQL, Java
- Networking:** TCP/IP, VLANs, DHCP, DNS, OSPF, Network Security
- Tools:** Git, VS Code, Cisco Packet Tracer, Wireshark
- Operating Systems:** Windows, Linux
- Database:** File Handling, Data Storage, MySQL

## PROJECTS

<b>Enterprise Campus Network Design &amp; Implementation</b> <i>Cisco Packet Tracer, VLANs, OSPF, DHCP, Network Security</i>	Nov 2024 - Dec 2024
<ul style="list-style-type: none"><li>Designed scalable campus network connecting multiple buildings with separate VLANs for different departments</li><li>Implemented OSPF routing protocol for efficient data flow and network redundancy</li><li>Configured DHCP servers and DNS services for automated IP management</li><li>Enhanced network security with port security, access control lists, and authentication protocols</li></ul>	
<b>HealthSync: Intelligent Healthcare Management Portal</b> <i>HTML, CSS, Python, Flask, JavaScript, Machine Learning</i>	May 2025 - June 2025
<ul style="list-style-type: none"><li>Created full-stack web platform for old-age homes with health blogs promoting wellness</li><li>Engineered diagnostic backend with ML model to predict diabetes and heart disease risk</li><li>Also included blogs to improve the lifestyle of people and NGO websites</li></ul>	
<b>AquaNet: Smart Water Distribution Management System</b> <i>C, Data Structures, File Handling, Network Protocols</i>	August 2025 - Sept 2025
<ul style="list-style-type: none"><li>Developed real-time monitoring system for water distribution with network-based sensor communication</li><li>Implemented leakage detection algorithms using pressure anomaly analysis across network nodes</li><li>Designed TCP/IP based communication protocol for sensor data transmission</li></ul>	
<b>EcoTrack: Smart Waste Management Optimization System</b> <i>C, Sensor Simulation, Route Optimization</i>	Sep 2025 - Present
<ul style="list-style-type: none"><li>Developed intelligent fill-level monitoring system using sensor data simulation for predictive waste collection scheduling</li><li>Optimized collection routes through dynamic path algorithms reducing fuel consumption by 28% and operational costs</li><li>Implemented recycling analytics tracking segregation efficiency and environmental impact metrics across urban zones</li></ul>	
<b>SecureBank: Enterprise Banking Management System</b> <i>C, File I/O, Data Structures, Network Security</i>	Oct 2025 - Present
<ul style="list-style-type: none"><li>Built secure banking system with encrypted data transmission and storage</li><li>Implemented network security features for secure remote access and transaction processing</li><li>Designed audit trail system for regulatory compliance and security monitoring</li></ul>	

## CERTIFICATIONS

- Gen AI by IBM Watson
- Blockchain Fundamentals by IBM

## ADDITIONAL INFORMATION

- Fluent in English, Hindi, and Marathi
- Active participant in networking projects and cybersecurity challenges
- Strong understanding of network protocols and system-level programming