

# Prathmesh .S. Raut

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## EDUCATION

<b>International Institute of Information Technology (Present - 2028)</b> <i>B.E in Information Technology</i>	<b>Hinjawadi, Pune</b> 8.8 CGPA
<b>Dr.Panjabrao Deshmukh Polytechnic (2025)</b> <i>Diploma in Computer Engineering</i>	<b>Amravati</b> 91.54%
<b>Govind New English Public School (2022)</b> <i>SSC(Secondary Education)</i>	<b>Karanja Lad, Washim</b> 93.20%

## EXPERIENCE

<b>Compilers Technology</b> <i>Java Development Intern</i>	<b>Amravati</b> Jun 2024 – Jul 2024
<ul style="list-style-type: none"><li>Developed enterprise applications for restaurant management systems using Java, Swing, and AWT.</li><li>Implemented JDBC for efficient database connectivity and data management.</li><li>Created both desktop and web-based GUI applications, enhancing user experience.</li><li>Collaborated with team members to optimize networking functionalities within applications.</li></ul>	

## PROJECTS

<b>Personal Finance Management System (PFMS)</b> <i>Team Lead</i>	<b>PD Polytechnic, Amravati</b> Feb 2025 – Apr 2025
<ul style="list-style-type: none"><li>Built a full-stack personal finance management web app used by <b>50+ users</b> to track income, expenses, and savings efficiently.</li><li>Designed dynamic dashboards and visual analytics, improving <b>financial literacy and awareness by 40%</b> among test users.</li><li>Implemented transaction categorization and budget tracking, helping users reduce overspending by <b>up to 25%</b>.</li><li>Optimized JSP–MySQL integration to reduce page load and data retrieval time by <b>30%</b>.</li></ul>	
<b>GigaPath (Fusion 2025 Hackathon Project)</b> <i>Team Member</i>	<b>SKNCOE, Vadgaon, Pune</b> Sep 2025
<ul style="list-style-type: none"><li>Developed a <b>HealthTech AI platform</b> that assists pathologists in analyzing histopathology images for tissue damage detection.</li><li>Built a <b>tiling and reconstruction pipeline</b> that processed <b>2000+ image tiles</b>, enhancing inference efficiency by <b>45%</b>.</li><li>Integrated a <b>ResNet-based tissue classification model</b> and generated heatmaps highlighting damaged regions with <b>92% accuracy</b>.</li><li>Deployed a <b>React.js web interface</b> and Node.js backend to visualize AI-generated heatmaps in real time.</li><li>Helped reduce manual diagnosis time for pathologists by <b>60%</b>, significantly accelerating clinical review workflow.</li></ul>	

## TECHNICAL SKILLS

**Core Subjects** – OOPS, DBMS, Computer Network, Network Security, Operating Systems

**Languages and Databases:** Python, Java, C/C++, SQL (MySQL), MongoDB(basics), SQLite

**Data Structures and Algorithms:** Dynamic Programming, Greedy, Sorting Algorithms, Trees, Graphs, Linked - list

**Mobile Application Development:** Android, Java, XML, Git, Github

## ACTIVITIES AND LEADERSHIP

<b>International Institute of Information Technology</b> <i>ACM Student Chapter Member</i>	<b>Hinjawadi, Pune</b> Present- 2025
<ul style="list-style-type: none"><li>Collaborated with peers through ACM initiatives to promote a culture of innovation, coding excellence and knowledge.</li></ul>	
<b>Technical Team Leader</b>	<b>PD Polytechnic, Amravati</b> Jul 2024-May 2025
<ul style="list-style-type: none"><li>Led the technical team for college events, managing all technical setups, software tools, and on-site troubleshooting.</li></ul>	