

MAAHI PATEL

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EDUCATION

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| Rice University Master of Computer Science | <i>Houston, TX, USA</i> <i>Expected 2027</i> |
| Pandit Deendayal Energy University (PDEU), B.Tech Computer Science and Engineering, CGPA: 9.28/10 | <i>Gandhinagar, GJ, India</i> <i>May 2025</i> |

WORK EXPERIENCE

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| Rice University — Teaching Assistant, COMP 410: Software Engineering Methodology | <i>Aug 2025 - Present</i> |
| <ul style="list-style-type: none">Guided two project teams, comprised of 15+ students, through the software development lifecycle, improving project delivery quality by 20% through agile methodologies.Streamlined grading and feedback using standardized rubrics to improve student outcomes. | |
| Pandit Deendayal Energy University (SAC ISRO Collaboration) — Research Intern | <i>Dec 2024 - Jun 2025</i> |
| <ul style="list-style-type: none">Engineered a LLaMA 3.2-based system for bug detection and code optimization, which led to a 92% accuracy in detecting bugs and boosted precision by 20% within testing environments.Built a Flask-based interface and CI/CD pipeline with Docker and GitHub Actions, enabling seamless deployment and real-time analysis of diverse codebases for research validation. | |
| NeoGen InfoTech — Data Science Intern | <i>May 2024 - Jul 2024</i> |
| <ul style="list-style-type: none">Developed customer churn prediction module using Random Forest and Logistic Regression, achieving a test AUC of 0.82.Built an interactive churn-risk dashboard using Pandas, Scikit-learn, and Plotly Dash. | |
| Siddhi InfoSoft — Data Analytics Intern | <i>May 2023 - Aug 2023</i> |
| <ul style="list-style-type: none">Developed a real-time analytics dashboard using React.js and MongoDB to track revenue and order data, reducing manual reporting time by 30%.Leveraged data visualization techniques to diagnose sales trends and operational inefficiencies, driving targeted optimizations in staff scheduling and inventory control. | |

PROJECTS

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| Intrusion Detection System for Academic Institutions | <i>Aug 2024 - Nov 2024</i> |
| <ul style="list-style-type: none">Designed and trained a Random Forest–based IDS achieving 91% detection accuracy for simulated cyberattacks.Enabled automated cloud-based alerts that cut manual monitoring time by 50%, improving system responsiveness and reducing operator workload. | |
| Automated Video Captioning and Translation System | <i>Jan 2024 - May 2024</i> |
| <ul style="list-style-type: none">Created a multilingual video captioning and translation system with 98.4% accuracy using Flask, MoviePy, OpenCV, and Whisper.Optimized pipeline to reduce processing time for 60+ minute videos by 40% without accuracy loss. | |

TECHNICAL SKILLS

Languages: Python, Java, C++, C
Libraries & Frameworks: PyTorch, TensorFlow, Scikit-learn, Keras, Node.js, React.js, Express.js, OpenCV, Whisper
Databases: SQL, MySQL, PostgreSQL, MongoDB
Tools/Platforms: Git, GitHub, GitHub Actions, Docker, REST API, Ollama