

EDUCATION

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| S R University, School of Computer Science and Artificial intelligence, Warangal, TG | May 2027 |
| Bachelor of Technology in Computer Science and Engineering.                          |          |
| CGPA: 8.8/10.00  |          |
| SPR School Of Excellence, Hanamkonda, TG   | May 2021 |
| CGPA:10/10   |          |

EXPERIENCE

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| S R University – Warangal, TG   | Aug 2023 – May 2027  |
| Project Architect – Smart Bin System  | Jan 2024 – May 2024  |
| <ul style="list-style-type: none"><li>Developed a sensor-driven Smart Bin using <b>ultrasonic sensors and microcontroller</b> for automated waste-level detection, reducing overflow incidents by <b>~65%</b> and improving sanitation response time.</li><li>Implemented an automated alert system minimizing manual inspection, cutting monitoring effort by <b>~40%</b> and improving operational efficiency.</li><li>Designed collection optimization logic using fill-level data patterns, reducing unnecessary pickup trips by <b>~30%</b> and lowering fuel consumption.</li></ul>   |                      |
| Internship - AICTE – EduSkills  | July 2024 – Sept2024 |
| <ul style="list-style-type: none"><li>Built and trained ML models using <b>Python, Scikit-learn, Pandas, NumPy</b>, improving prediction accuracy by <b>18%</b> through feature engineering and preprocessing; reduced error rate by <b>22%</b> using hyperparameter tuning and cross-validation.</li><li>Implemented ML algorithms such as <b>Regression and Decision Trees</b> to automate data analysis, cutting manual processing time by <b>35%</b> on datasets with <b>10k+ records</b>.</li><li>Deployed end-to-end ML workflows from data collection to evaluation, improving decision-making efficiency by <b>30%</b> using performance metrics.</li></ul> |                      |

PROJECTS

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| Automated Timetable Analyzer & Free Slot Finder - SRU Time Table  |
| <ul style="list-style-type: none"><li>Developed a web application that processes raw college timetable Excel files into structured visual schedules using <b>Python, Pandas, HTML, CSS, and JavaScript</b>. Solved timetable readability issues for students and reduced manual schedule checking effort by <b>~70%</b>.</li><li>Built a timetable comparison engine to detect common free time slots across multiple schedules automatically. Helped students coordinate meetings and study sessions faster, <b>cutting planning time by ~80%</b>.</li><li>Optimized data processing logic for faster analysis of large timetable files. Improved schedule analysis <b>speed by ~50%</b>, enabling quick downloads in <b>Excel and HTML formats</b> for sharing.</li></ul>   |
| MarvelShowCase – Interactive MCU Explorer (Frontend)  |
| <ul style="list-style-type: none"><li>Built a high-performance, feature-rich Marvel Cinematic Universe explorer using <b>React 18, TypeScript, Vite, Tailwind CSS, and Framer Motion</b>. Delivered a visually immersive platform for browsing MCU movies, series, and characters in chronological order.</li><li>Implemented advanced UI engineering including <b>animated page transitions, dark/light theming, interactive timeline view, and modular component architecture</b>. Improved user navigation experience and content discovery through structured data rendering and responsive design.</li><li>Designed scalable frontend architecture with Context API state management, reusable UI primitives (ShadCN), and route-based code organization. Optimized performance and maintainability while enabling smooth SPA navigation and future feature extensibility.</li></ul> |
| Personal Loan Approval Prediction using ANN   |
| <ul style="list-style-type: none"><li>Built a deep learning model using Artificial Neural Networks (TensorFlow/Keras) to predict personal loan approval based on financial and demographic features. <b>Achieved 91.3% model accuracy</b> with optimized architecture (<b>128–64–32 neurons</b>) and <b>Adam optimizer</b>.</li><li>Performed feature engineering (custom feature <i>ApprovalBoost</i>) and data preprocessing on a real-world Kaggle dataset. Improved prediction performance through input normalization, data cleaning, and class-balance handling.</li><li>Evaluated model using Precision, Recall, F1-Score, and Binary Crossentropy loss, ensuring robust classification performance. Designed system with potential integration into real-time loan decision systems and explainable AI extensions.</li></ul>  |

TECHNICAL SKILLS

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| <ul style="list-style-type: none"><li><b>Programming:</b> Python   C   Java</li><li><b>Databases:</b> SQL   PLSQL   MongoDB</li><li><b>Tools:</b> Visual Studio Code</li><li><b>Frameworks:</b> Flask   Django</li></ul> | <ul style="list-style-type: none"><li><b>Web:</b> HTML   CSS   Java Script   PHP</li><li><b>Coursework:</b> DSA   Operating System   DBMS   CN</li><li><b>Source &amp; Version Control:</b> Git   GitHub</li><li><b>Other Skills:</b> Data Analysis, Machine Learning, Data Science</li></ul> |
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ACHIEVEMENTS

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|---|---------------------|
| SR University – Warangal, Telangana   | Aug 2023 – May 2024 |
| <ul style="list-style-type: none"><li>Ranked in the top 3% of the university, demonstrating consistent academic excellence across all subjects.</li><li>Recognized for outstanding academic achievement during the 2024-2025 academic year.</li></ul> |                     |