

JAYADEEP PENDELA

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EDUCATION

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| Vellore Institute of Technology, Chennai Integrated M.Tech in Software Engineering | Sep 2021 - Present CGPA: 8.19 |
| Narayana Junior College Intermediate | Jul 2020 - May 2021 Percentage: 94% |
| Roshni Ratnam E.M High School High School | Jun 2018 - Mar 2019 GPA: 9.7 |

INTERN EXPERIENCE

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| TechCiti Technologies Software Developer Intern | Sep 2023 - Nov 2023 |
| <ul style="list-style-type: none">Developed a machine learning-based placement prediction system, achieving 97% accuracy.Successfully implemented the application, increasing the real-time engagement of the user by 30%.Implemented a scalable back-end framework for seamless data processing. | |
| Code Clause Web Development Intern | Oct 2023 - Nov 2023 |
| <ul style="list-style-type: none">Developed Face IQ, an API-powered emotion recognition application designed for accurate real-time sentiment analysis.Created Bg Remover, a Node.js-based background removal tool that features a sleek user interface / UX and seamless API integration.Built an interactive portfolio that showcases the expertise in UI / UX design and contributed to multiple high-quality projects, earning a Letter of Recommendation for outstanding performance and technical excellence. | |

PROJECTS

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| AI-Driven Smart Classroom Power Control System DL, IoT, MQTT, ESP32 | Jan 2025 |
| <ul style="list-style-type: none">Optimized energy consumption using a CNN-based deep learning model for real-time student presence detection.Integrated ESP32 microcontroller with the MQTT protocol to enable automated zone-based power management.Achieved 95%+ accuracy in video-based occupancy detection, ensuring efficient control of the lighting and fan.Reduced response time to less than 500 ms, enhancing sustainability and operational efficiency in educational institutions.Patent Pending: Filled a utility patent for AI-driven smart classroom power control technology. | |
| Wildfire Prediction Deep Learning, Xception, Open-Meteo API | Jan 2025 |
| <ul style="list-style-type: none">Trained an Xception model on satellite images (accuracy 97%).Integrated wildfire data from the Open-Meteo API (2023-24).Designed a prevention recommendation system. | |
| Books Behind the Bars MERN | Dec 2024 |
| <ul style="list-style-type: none">Real-time Face Detection & Liveliness Monitoring: Use OpenCV to track prisoner participation and prevent misuse.Advanced Admin Dashboard: Enable book uploads, inventory management, user analytics, and library statistics (active readers, total books, recommendations).Enhanced Reading Experience: Features realistic page-turning (npm page-turn), customization UI/UX themes.Cloud-Integrated System: Using Cloudinary for secure book storage, interactive book queuing, and memory games for cognitive engagement. | |
| Bookworm Android App Java, Firebase | Dec 2024 |
| <ul style="list-style-type: none">Developed an Android app for secure and interactive e-book access.Enabled admin functionalities for e-book management.Allowed users to browse, comment, download, and interact with books. | |

SKILLS

Technical: Web Development, Machine Learning, UI/UX, Android Development
Programming: Java, Python, PostgreSQL, HTML, CSS, JavaScript
Frameworks: Tailwind CSS, Flask, Bootstrap
Libraries: TensorFlow, Pandas, Scikit-learn, Shadcn ui
Tools: Git, GitHub, Figma, Canva, Katalon, Selenium Webdriver, Firebase, Mongo DB
Languages: Telugu, Hindi, English
SoftSkills: Emotional Intelligence, Self-learning, Presentation, Leadership, Collaboration

CERTIFICATIONS

- IIT Bombay Spoken Tutorial (2022) - Python 3.4.3, C, C++, Advanced C++
- Coursera (2023) - HTML, CSS, and JavaScript for Web Developers
- Internship Certifications (2023) - Frontend Web Development (Codesoft, Codecasa, Codeclause, Infoaid Tech)
- Springboard (2025) - Agile Scrum in Practice