

JAYADEEP PENDELA

Nellore, India | pendelajayadeep@gmail.com | +91 8712 153 520 | [LinkedIn](#) | [GitHub](#)

EDUCATION

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

INTERN EXPERIENCE

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

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

<ul style="list-style-type: none">IIT Bombay Spoken Tutorial (2022) - Python 3.4.3, C, C++, Advanced C++Coursera (2023) - HTML, CSS, and JavaScript for Web DevelopersInternship Certifications (2023) - Frontend Web Development (Codesoft, Codecasa, Codeclause, Infoaid Tech)Springboard (2025) - Agile Scrum in Practice
