

Pasnoor Seethala

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EDUCATION

CMR College of Engineering & Technology, Hyderabad, India

2020 – 2024

Bachelor of Technology in Computer Science & Engineering (Cyber Security)

CGPA: 7.56

ACADEMIC PROJECTS

Plagiarism Checker for the Indian Government (Smart India Hackathon)

- Developed a plagiarism checker tailored for the "Shodhganga" website, an initiative by the Government of India for Ph.D. theses submissions.
- Implemented advanced text processing techniques using NLP, SpaCy, and robust comparison algorithms such as cosine similarity and Levenshtein distance in Python. Utilized PostgreSQL-integrated Flask web app for efficient thesis data management and results.
- Ensured security commitment through OAuth authentication, SSL/TLS connection, and external plagiarism detection APIs. Deployed the project on AWS using Docker for containerization. Implemented PyTest, Selenium, and GitLab CI for accurate plagiarism identification, contributing to increased academic integrity in India.

Python-Based Attendance System with Facial Detection

- Developed a Python-based attendance system integrating the OpenCV library for facial detection. Enabled real-time facial detection in live stream videos from webcams or locally stored video files.
- Implemented various pre-trained XML classifiers for object identification. Designed an adaptable program with effective XML classifier file paths for smooth execution.

SDR Exploitation for Wireless Network Security

- Investigated software-defined radio (SDR) for wireless network security and protocol analysis. Utilized extensive signal processing analysis for radio frequency spectrum weak areas.
- Developed cybersecurity tools using SDR, focusing on wireless network vulnerabilities. Explored protocols, modulation techniques, and spectrum analysis for effective exploitation.
- Engaged in research on IoT security, smartphone security, cognitive radio, and smart grids.

Portfolio Website Development

- Implemented responsive design with HTML5 and CSS3 for a sleek, modern appearance. Enhanced user interaction through JavaScript, ensuring a seamless and engaging experience.
- Developed a project gallery with smooth transitions and animations to highlight key achievements. Integrated dynamic form elements for easy contact and interaction.

WORK EXPERIENCE

Pascalcase | Hyderabad, India

Sep 2023 - Present

- Contributed to website performance metrics, resulting in faster loading times and a more responsive interface. Implemented performance enhancements, including code splitting and asynchronous loading.
- Reduced page load times and enhanced overall responsiveness for an improved user experience.

EXTRA-CURRICULAR ACTIVITIES

Member of Student Council, CMR College of Engineering & Technology

- Strategically designed and executed events that introduced innovative formats, enriching the experience by embracing diversity.
- Successfully raised funds for various initiatives, contributing to the betterment of the college community and surrounding areas.

Social Media Manager, Rotaract (NGO)

- Boosted our online presence by creating engaging digital campaigns that resonated with a broad audience.
- Crafted diverse and entertaining content, blending stand-up comedy and other initiatives to create a lively online community.

SKILLS

Languages – English (Proficient), Hindi (Proficient), Telugu (Proficient)

ICT – Python, Debugging, HTML, CSS, Java Script, MS Office, Google Docs, Node.js, React.js, MongoDB, Figma, Responsive Design, Cross Browser Compatibility, Accessibility Standards, Mobile-first Development Practices, UI/UX Design, Web Performance Optimization, Git, Command Line Tools.