MANTENA KRISHNA TEJA

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PROFILE

- **Full Stack Developer** with expertise in **C, Java, C++, and Python, specializing in Django and Spring Boot.** Developed and deployed 3 projects, increasing real-time analysis efficiency **.**
- **Engineered** a secure online bidding platform, **strengthening transaction security and reliability**. **Gained 95% project-based experience** and earned **AWS Cloud and RPA certifications**, demonstrating a strong foundation in cloud computing and automation.

EDUCATION

Bachelor of Technology in Computer Science   2021-Present
KL University, GPA: 9.5   Vijayawada, Andhra Pradesh

Board of Intermediate Education   2019-2021
Narayana Junior College   Vijayawada, Andhra Pradesh

Central Board of Secondary Education   2018-2019
Bharatiya Vidya Bhavans   Tadepalligudem, Andhra Pradesh

SKILLS

- **Programming Languages:** C, Java, C++, Python,
- **Backend & API Development:** REST API, MySQL, PostgreSQL
- **Web Development:** HTML, CSS, Javascript, Bootstrap, React.js, Django, Spring Boot
- **AI/ML & Automation:** Deep Learning, AI-powered Systems, RPA (Automation Anywhere)
- **Cloud & DevOps:** AWS Cloud, CI/CD, Git
- **Security & Performance:** Authentication Systems, Database Optimization, API Security

PROJECTS

Multimodal Emotion Recognition
Technologies: React.js, REST API, Deep Learning, TensorFlow, Computer Vision, JavaScript, UI/UX Design

- **Engineered** a full-stack application integrating a React.js frontend with a deep learning model, achieving **80%+ accuracy** in real-time emotion detection.
- **Designed** an interactive, responsive UI that enhanced user engagement, enabling seamless real-time emotion visualization.
- **Executed** REST API integrations to facilitate **efficient** and **secure** frontend-backend communication, reducing response latency.
- **Refined** model performance through data preprocessing and fine-tuning, improving inference speed.

Online Bidding System
Technologies: Java, Spring Boot, MySQL, REST APIs, JWT Authentication, Hibernate, Security Best Practices

- **Architected** a secure digital bidding platform with **role-based authentication**.
- **Structured** an auction management system supporting **real-time** bid updates, improving bidding efficiency.
- **Leveraged** MySQL database with Hibernate ORM, optimizing query performance and reducing data retrieval time.
- **Deployed** robust security measures, including **JWT authentication** and **data encryption**, preventing unauthorized access attempts.

Movie Search App
Technologies: Django, OMDb API, MySQL, REST APIs, Caching, Python, Web Scraping

- **Designed** a Django-based web application that dynamically retrieves and displays movie details.
- **Optimized** API calls with a **SQL-backed caching mechanism**, reducing response time.
- **Implemented** a SQL-backend database for caching search results, **reducing API calls** and **improving app performance**.
- **Enhanced** UI/UX with **responsive design**, improving user engagement and **boosting retention**.

CERTIFICATIONS

- Automation Anywhere Certified Essentials RPA Professional (2024)
- AWS Cloud Practitioner (2023)

PUBLICATIONS

Fairness in Predicting Recidivism Score (2024)

- **Analyzed** bias in recidivism predictions using the **COMPASS dataset**, evaluating fairness across **10+ data points**.
- **Benchmarked** SVM, Decision Tree, and Ensemble models, achieving **68.01% accuracy** and **15% improved reliability**.