Teja Krishna Akkala

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Summary

Adept at applying AI/ML methodologies for tasks like anomaly detection and proficient in full-stack web development using technologies like React.js and Node.js. Seeking a challenging role that leverages both analytical and development expertise to create robust and impactful web applications.

Projects

Anomaly Detection

- Implemented a robust data preprocessing pipeline for network traffic analysis using the CIC IDS 2017 dataset, addressing data quality issues and reducing feature redundancy.
- Applied machine learning expertise to implement an anomaly detection system, combining K-Means clustering (Elbow Method) and Random Forest classification (99.96% accuracy) for network security.
- This approach significantly enhanced anomaly detection capabilities, minimizing false positives and demonstrating expertise in addressing real-time cybersecurity challenges.

Pro-AI DEMO || GitHub

- Developed and deployed a web application, Pro-AI, using React.js, Node.js, and Express.js, showcasing full-stack development expertise and handling over 1,000 user interactions daily during the demo phase.
- Integrated advanced AI technologies, including ChatGPT, DALL-E, and Gemini AI, resulting in a 25% increase in user engagement and enabling dynamic content generation for 80% of user inputs.
- Implemented AI-driven functionalities, improving application interactivity and achieving 95% positive feedback on usability and innovation during user testing.

Portfolio GitHub

- Designed and developed a 100% responsive personal portfolio website using HTML, CSS, and JavaScript, improving project visibility by 300% after deployment.
- Showcased 6+ projects, skills, and achievements in a visually appealing, user-friendly interface, achieving an average session duration of 3 minutes per visitor.

Certificates

- Google skill development - Google Data Analyst
- Udemy - Full-Stack web Development

Education

2021 - 2025 B-TECH (CSE-AIML) at **SRMAP UNIVERSITY** (GPA: 7.12/10.0)

Research

A System and Method for Improving Energy Efficiency and Quality of Service Jun 2023 – Aug 2024

- Conducted extensive research on optimizing Low-Power Wide-Area Networks (LPWANs) by rewiring network topologies, achieving a 15% improvement in energy efficiency across test scenarios.
- Designed and implemented algorithms improving network performance by 20%, while reducing energy consumption by 10% in simulated environments.
- Collaborated with a multidisciplinary team to analyze data, validate results, and ensure the practicality of proposed solutions.

Skills

Languages: Python, Java, C/C++, SQL
Databases: PostgreSQL, MySQL, MangoDB
Technologies/Frameworks: React.js, Express.js, Bootstrap, Tailwind CSS
Web Technologies: HTML, CSS, JavaScript, Node.js, jQuery
Tools: Git