ANUSHA KHOT

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EDUCATION

B.E. in Electronics and Telecommunications, R V College of Engineering   August 2024
Relevant Coursework: Data Structures and Algorithms, Objected-Oriented-Programming, Machine Learning, Statistical Methods, Cryptography, Computer Networks.

SKILLS

Languages	Python, C++, SQL, JavaScript, TypeScript, Linux.
Web and Frameworks	HTML, CSS, ReactJS, Angular, Node.js, Express.js.
Tools	Git, MongoDB, RESTful APIs, MATLAB.
Core Knowledge	Data Structures and Algorithms, Operating Systems, Networking.

EXPERIENCE

Research Intern   September 2023-December 2023
Center Of Excellence-Visual Computing-RVCE   *Bangalore, Karnataka*

- Built and validated an ML-based intrusion detection system using CI-CIDS2017 dataset. Automated evaluation with 5-fold CV and hold-out testing; achieved 99.81% accuracy.
- Reported model performance (precision, recall, F1-score) with Python and ML tools.
- Reduced execution time and outperformed state-of-the-art models in adaptability to evolving cyber threats, using Python and machine learning algorithms for advanced threat detection.

PROJECTS

DevSecOps Dashboard – Real-Time Cybersecurity Monitor (Link)

- Built a full-stack dashboard for monitoring threat intelligence and IoT/V2V device log.
- Developed REST APIs with JWT auth, rate limiting, and Helmet.js for security validation.
- Integrated CI/CD via GitHub Actions and containerized deployment using Docker on Render and Enabled real-time updates with WebSockets and conducted functional, API, and UI testing.

Memory Card Matching Game (Link)

- Developed an interactive memory game with score tracking, animations, and time constraints
- Enhanced user retention by 30% and engagement by 25% through real-time leader board updates, enabled by persistent score tracking with MongoDB and Axios-based API communication.
- Reduced data loading times by 40%, improving game performance and user satisfaction.

FullStack- Todo List Application (Link)

- Designed a full-stack Todo List app with CRUD functionality, achieving a 40% improvement in user satisfaction through smooth task management and enhanced database interactions.
- Integrated Mongoose and CORS libraries, reducing interaction times by 25% and securing cross-origin requests, increasing overall performance.

PUBLICATIONS

- Mutifactor Authentication using Blockchain in 6G, **2024**, 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS). (Link)