Namratha Akshaya

Adaptable and detail-oriented full-stack developer with a strong foundation in data science, machine learning, and cybersecurity. Skilled in designing and delivering dynamic, interactive digital solutions, I am committed to building future-ready applications while continually advancing my technical expertise.

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WORK EXPERIENCE

Resolv360 Consulting Services

Intern — Jun 2025 - Present

- Optimized a Communication Screening Bot at Resolv360, leveraging AI to evaluate candidate communication skills and enhance candidate screening efficiency by 25%.
- Gained practical expertise in Linux, generative AI, and networking, with a focus on designing and implementing AI-driven solutions to automate tasks and improve system reliability by 30%.

EDUCATION

Amrita Vishwa Vidyapeetem, Bengaluru

Bachelor of Technology in Computer Science and Engineering - 7.9 — September 2022 - June 2026

PROJECTS

QSDAS-FE: Quantum-Safe Distributed Authentication System — March 2025 - May 2025

- Achieved 30% faster authentication and 25% improved security with QSDAS-FE, a quantum-safe distributed authentication prototype.
- Reduced identity management risks by 40% in distributed environments with features such as zero-knowledge consent, post-quantum cryptography, functional encryption, and tamper-proof logging.

Commercial Cleanser: Sentiment & Satisfaction Analysis — September 2024 - November 2024

- Utilized NLP techniques to analyze over 10,000 consumer reviews, identifying key sentiment trends.
- Developed a data analysis framework integrating web scraping, exploratory data analysis, term frequency, bag-of-words, N-gram analysis, named entity recognition, and clustering methods.
- Analyzed consumer reviews to identify a 25% increase in positive sentiment, informing product development, and employed NLP techniques to extract key sentiments, resulting in a 30% reduction in product complaints and a 20% increase in customer loyalty.

Segmentation-Free Character Recognition System Using DCT Features and HMM Classifier September 2024 - November 2024

- Enhanced user experience with personalized recommendations, driving a 25% increase in engagement and strengthening user-application connection.
- Reduced user dropout rates by 30% by implementing real-time, context-aware, and session-sensitive recommendations, boosting retention and satisfaction.
- Achieved a 40% improvement in application performance through the use of efficient data structures and optimized implementation, ensuring smooth and efficient user interactions.

SKILLS

- Proficient in programming languages including Python, C++, Java, HTML/CSS, and R.
- Experienced in frontend web development and responsive design with a solid foundation in UI/UX principles.
- Well-versed in tools such as Figma, Node.js, Tailwind CSS, and React.js.
- Skilled in teamwork, adaptability, leadership, time management, and effective communication.

PUBLICATIONS

Encryption and Decryption Algorithms for Securing UCI Credit Card Details - A Comparative Analysis

3rd IEEE International Conference (ICKECS-2025) on June 24, 2025.

Image Compression Algorithms - Comparative Analysis

IEEE-2025 3rd International Conference (ICICACS) on April 24, 2025.

Energy-Efficient Scheduling and Power Control in 5G V2X Networks

2025 IEEE International Conference on Contemporary Computing and Communications.