Namratha Akshaya

Adaptable and detail-oriented full-stack developer with a strong foundation in data science, machine learning, cybersecurity, and a keen interest in AI. 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 - July 2025

- Optimized a Communication Screening Bot at Resolv360 by leveraging AI to assess candidate communication skills, streamlining the screening process and improving overall hiring efficiency.
- Developed expertise in Linux, generative AI, and networking, designing and implementing AI-driven solutions to automate tasks and improve system reliability.

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

- Significantly enhanced authentication efficiency through the development and implementation of QSDAS-FE, a cutting-edge quantum-safe distributed authentication prototype.
- Mitigated identity management risks through the integration of advanced features such as zero-knowledge consent, post-quantum cryptography, functional encryption, and tamper-proof logging, thereby ensuring high privacy and security for applications in sensitive sectors like healthcare and insurance.

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 75% 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

- Designed a segmentation-free handwritten character recognition system for Malayalam script, utilizing Discrete Cosine Transform (DCT) features and Hidden Markov Model (HMM) classifiers.
- Enhanced character recognition accuracy by 80% and reduced processing time by 60% through the application of advanced machine learning methodologies, thereby facilitating efficient and scalable recognition of complex handwritten text.
- Implemented a real-time, window-based feature extraction approach, eliminating traditional segmentation errors and significantly increasing system robustness for digitizing regional language manuscripts and automating document workflows.

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.