Namratha Akshaya

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PROFILE

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.

WORK EXPERIENCE

Software Engineer Intern, Resolv360 Consulting Services

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

Bachelor of Technology in Computer Science and Engineering - 7.9

Amrita Vishwa Vidyapeetem, Bengaluru
September 2022 - June 2026

Higher secondary Education - 85

Delhi Public School, Benglarur
March 2020 - July 2022

PROJECTS

JobPilot-AI Driven Interview Preparation System

March 2025 - May 2025

- Launched an innovative platform, JobPilot, aimed at improving job candidates' interview preparedness through mock interview sessions aligned with diverse job roles and industries.
- Integrated real-time feedback and performance evaluation features to assist users in recognizing their strengths and areas for improvement, thereby optimizing their interview skills.

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.

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

September 2024 - November 2024

- Developed a segmentation-free handwritten character recognition framework for Malayalam script.
- Achieved 80% improvement in character identification accuracy and 60% reduction in processing duration.
- Deployed a real-time window-based feature extraction mechanism to eliminate traditional segmentation inaccuracies.

Commercial Cleanser: Sentiment & Satisfaction Analysis

September 2024 - November 2024

- Evaluated over 10,000 consumer reviews to extract significant sentiment patterns.
- Created a data analysis framework combining web scraping and NLP methodologies.
- Boosted product innovation and customer retention through insights derived from NLP-driven analysis.

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, React.js, and skilled in databases like MongoDB, PostgreSQL, and MySQL for full-stack development.
- Strong in software development practices, including agile methodologies, API development, and backend technologies.
- Skilled in Power BI and Tableau for data visualization.
- Excellent critical thinking and problem-solving abilities, along with strong teamwork, adaptability, leadership, time management, and effective communication.

CERTIFICATIONS

The Complete Full-Stack Web Development Bootcamp

Hands-On Data Visualization with Microsoft Power BI

AWS Academy Cloud Foundations

PUBLICATIONS

Encryption and Decryption Algorithms for Securing UCI Credit Card Details
3rd IEEE International Conference (ICKECS-2025) on June 24, 2025.

Image Compression Algorithms - Comparative Analysis
IEEE-2025 3rd International Conference (ICICACS)

Energy-Efficient Scheduling and Power Control in 5G V2X Networks
2025 IEEE International Conference on Contemporary Computing and Communications.