LALITHYA MADA

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EDUCATION

The University of Texas at Dallas Expected May 2025
Master of Science, Computer Science GPA 3.8/4
Konneru Lakshmaiah University May 2022
Bachelor of Technology, Computer Science Engineering GPA 9.0/10

TECHNICAL SKILLS

Programming: Python, Java, C#, R, SQL, .NET 6, Django.
Data Science: PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas, SpaCy, Matplotlib, Tableau, Power BI, Spark.
Cloud and Operations: AWS, GCP, Azure, Docker, Kubernetes, Postman, Kafka, Git, Jenkins, JIRA, CI/CD.
Databases and Tools: MySQL, MongoDB, Cosmos DB, Snowflake, Figma, Blazor.
Certifications: ServiceNow Certified System Administrator, Microsoft Azure SQL Fundamentals, HackerRank SQL Advanced

PROFESSIONAL EXPERIENCE

Deloitte, Hyderabad, India May 2022 - Jul 2023
Software Engineer

- Developed and deployed an e-learning web application using .NET 6, C#, Blazor**,** and SQL Server**,** enhancing technical and professional skills for Deloitte employees.
- Incorporated reusable UI component enhancing, streamlined development processes across projects, and boosted task efficiency by 40%, while reducing overall development time by 50%.
- Designed and implemented RESTful APIs to enable seamless communication between front-end and back-end systems, facilitating efficient data retrieval and updates. Integrated secure authentication and authorization protocols, ensuring robust data protection and smooth access control across Deloitte's e-learning platform, enhancing scalability and system reliability.
- Executed data migration of over 1 million records from MySQL to Cosmos DB, managing Azure Data Factory pipelines to ensure seamless data integration across 6 Deloitte business units, reducing data processing time by 25%.

Deloitte, Hyderabad, India Jan 2022 - Apr 2022
Software Engineer Intern

- Automated data cleaning and standardization for 100,000+ rows using Python, Pandas, and NumPy, resolving inconsistencies and improving analytics efficiency by 30%.
- Created over 20 wireframes and interactive prototypes using Figma for a web application, ensuring UI design consistency in collaboration with a team of six developers.
- Created intuitive Power BI dashboards from 500K+ records of unclean data, identifying flaws and areas for improvement, which reduced inefficiencies by 30% and simplified workflows by 20%.

ACADEMIC PROJECTS

AI-Powered Fitness Trainer: Real-Time Workout Tracking and Rep Counting Oct 2024 - Nov 2024
The University of Texas at Dallas

- Built a Real-Time Workout Analysis System leveraging the MediaPipe library to track body positions, calculate joint angles with over 95% accuracy, and count repetitions, enabling seamless fitness tracking for users with just a webcam.
- Created Multi-Exercise Recognition Features to support 5+ exercises, including pull-ups, push-ups, sit-ups, walking, and squats, increasing workout precision by 30% through real-time feedback on form and technique.

Library Management System
The University of Texas at Dallas Aug 2023 - Dec 2023

- Built a user-centric interface using HTML, CSS, Django, and Python, enabling over 500 users to search for books, track library inventory of 10,000+ items, and calculate overdue fees with 99% accuracy.
- Implemented and optimized MySQL databases, enhancing scalability to support over 10,000 book records and user transactions, ensuring data integrity and improving performance by 40%.

Gender Detection Model Jul 2021 - Dec 2021
Konneru Lakshmaiah University

- Created and deployed a gender classification model utilizing facial feature recognition, achieving 91.7% accuracy with Convolutional Neural Networks (CNNs).
- Boosted model performance by 15% through the application of the Deformable Spatial Pyramid technique to enhance subtle feature detection.

PROFESSIONAL INVOLVEMENTS

- Assisted in grading coursework and providing guidance to 100 undergraduate Computer Science students.