NALLALA MOHANA LAKSHMI

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CAREER OBJECTIVE: Seeking an entry-level opportunity in a forward-thinking organization that values my technical expertise and analytical mindset. Eager to contribute through problem-solving and innovation while continuously enhancing my knowledge and staying aligned with emerging technological advancements.

EDUCATION

Sagi Ramakrishnam Raju Engineering College, Bhimavaram, AP   **2021-2025**
Computer Science and Engineering | CGPA: **9.29**
Aditya junior College, Kakinada, AP   **2019-2021**
MPC Stream | Percentage: **97.5%**
Ravindra Bharathi School, Kakinada, AP   **2018-2019**
CGPA: **10**

INTERNSHIP EXPERIENCE

Web Stack Academy (Remote)   **Feb 2024 – Apr 2024**
MERN Intern

　　Skills Gained: React.js, Node.js, MongoDB, Full-stack development, website design.
- Developed a dynamic platform for instant house rental bookings, enabling users to book accommodations in real-time. Incorporated a feature allowing users to list their houses for rent.
- Worked collaboratively to design and implement backend functionalities, ensuring seamless online payment options and efficient data handling.
- Built an intuitive web interface enabling users to browse, book accommodations, manage bookings effortlessly.

Blackbuck Engineers (Remote)   **July 2023 –Sep 2023**
AWS Cloud Intern

　　Skills Gained: AWS S3, DynamoDB, RDS, SNS, IAM, Cloud Architecture Design, Data Management.
- Designed and implemented a robust cloud-based 13 tier architecture for a real-time marketplace application, ensuring efficient data management and high availability across multiple availability zones.
- Integrated AWS services, including S3 for storage, DynamoDB for efficient data management, and SNS for real-time messaging and alerts.
- Implemented advanced features like High Availability, versioning, data deduplication, and backup strategies.

RESEARCH EXPERIENCE

Research Assistant | Bhimavaram, Andhra Pradesh   **July 2024 – Present**
Sagi Ramakrishnam Raju Engineering College
- **Developed** a deep learning model for detecting road anomalies using YOLOv9, leveraging computer vision techniques to enhance traffic monitoring systems.
- **Prepared** a comprehensive dataset of traffic scenarios in India, including real-time data collection, annotation, and preprocessing, to ensure model accuracy and robustness.
- **Analysed** model performance using precision-recall metrics, achieving reliable detection rates for anomalies like accidents, obstacles, and traffic congestion.
- **Collaborated** with a multidisciplinary team to validate results, refine methods, and prepare findings for publication in a peer-reviewed journal.

　　Skills Gained: Deep Learning, Computer Vision, Model Optimization, Dataset Engineering, Team Collaboration.

PROJECTS

INSURANCE MANAGEMENT PLATFORM USING SPRING BOOT
- Developed a real-time insurance management platform using Spring Boot, facilitating seamless management of insurance policies, clients, and claims.
- Designed & implemented three core classes (**Claim**, **Client**, **InsurancePolicy**) with proper mappings between them.
- Utilized MySQL as the database, with MySQL Workbench for schema management and Postman API for testing.

Technologies: JAVA-Core, JDBC, Spring Boot, SQL, MySQL Workbench, Postman-API, Spring Tool Suite, Eclipse.

HOME PRICE PREDICTION WEB APPLICATION
- Developed a machine learning model using linear regression to predict house prices, achieving a high accuracy score of 0.8183 on test data. Experimented with multiple algorithms, including Lasso regression and Decision Trees, and selected the optimal model based on performance metrics.
- Designed an interactive web interface with HTML, CSS, and JavaScript, enabling users to input property details and receive real-time predictions.
- Integrated the model with a Flask backend, allowing seamless communication between the user interface and the prediction system.

Technologies: Python, scikit-learn, Machine Learning, Flask, HTML, CSS, JavaScript, Postman-API.

COOK-BOOK XPRESS
- Developed a recipe management platform using MEAN stack, enabling users to search for recipes and access detailed instructional cooking videos.
- Implemented a seamless process for users to browse recipes, select required ingredients, and instantly place orders for cooking essentials.
- Designed a user-friendly interface. Integrated a dynamic search feature, allowing users to filter recipes by cuisine, ingredients.
- Collaborated with the team for database operations ensuring smooth application performance by following **SDLC**.

Technologies: HTML5, CSS, JAVASCRIPT, PHP, MYSQL.

CERTIFICATIONS
- Certified by **GOOGLE** cloud readiness in **Data Analyst Course**.
- Certified in course **Data Science for Engineers from NPTEL** with **ELITE** Remark.
- Certified by **NASSCOM** (Occupational Standard) for the job role **Software Developer Associate**.
- Certified by **AICTE** EduSkills Academy in **AI-ML Course**.
- Certified by **CISCO** Networking Academy in **Networking Essentials (CCNA)**.

TECHNICAL SKILLS

Programming and development: Python (Strong), Java, Spring, C, C++, R, HTML, CSS, Javascript

AI and Data Science: Machine Learning, Deep Learning, Scikit-learn, Tensorflow, Computer vision

Databases and Visualizations: DBMS, MySql, Tableau

Tools and Platforms: AWS, GitHub, Jupyter Notebook, VSCode, Eclipse

Strong in **Data Structures and Algorithms (DSA),** with practical experience in problem-solving across various platforms, and proficient in **Linux and Windows** operating systems with practical knowledge in **OOPS**.

ACHIEVEMENTS
- Hackerrank : 4-star rating in Python, 3000+ hackos.
- Leetcode: Solved 130+ problems.
- GeeksforGeeks: Solved 80+ problems.

EXTRA-CURRICULAR ACTIVITIES
- **Member of ISTE Association**: Actively participated in technical workshops and events organized by the Indian Society for Technical Education (ISTE), contributing to collaborative learning and innovation.
- **Volunteer in Yes+ (The Art of Living Club)**: Engaged in personality development programs and activities focused on stress management, leadership, and community well-being.
- **Volunteer in NSS Club**: Contributed to social service initiatives and community welfare projects, fostering teamwork and social responsibility.