VASISTA TUMMALA

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OBJECIVE

Data Science Graduate Student | Machine Learning Enthusiast | Cloud Computing Specialist
Graduate student with a solid foundation in both **software development** and **data science**. Proficient in **Python, Java, cloud technologies**, and **machine learning frameworks**. Seeking to contribute to **innovative development teams** by **delivering impactful solutions** in **data science** and **engineering**.

EDUCATION

University of Houston   **Houston, Texas, USA**
Master of Science in Engineering Data Science | **CGPA:** 3.8/4.0   August 2023 - December 2024
- **Engineering Dean's Master's Scholarship Recipient (2023–2024):** Awarded for outstanding academic performance and leadership potential.
- **Coursework:** Data Science and Machine Learning, Probability and Statistics, Data Analysis, AI for Engineers, Database Management Tools, Deep Learning, Data Mining

Gandhi Institute of Technology and Management   **Hyderabad, Telangana, India**
Bachelor of Technology in Computer Science and Engineering | **CGPA:** 8.7/10   June 2019 - April 2023
- **Coursework:** Cloud Computing, Operating Systems, Computer Networks, Software Engineering, Agile Software Development

SKILLS

Programming Languages & Frameworks: Python, Java, JavaScript, HTML, CSS, R, Flask, Spring, Spring Boot, React, Node.JS
Technical Skills: AWS, Azure, Docker, Kubernetes, CI/CD, Microservices
Databases: SQL, MySQL, SQLite, Oracle, NoSQL, CosmosDB
Tools and Technologies: Git, GitHub, Tableau, Postman, Jira, Miro, Confluence

PROFESSIONAL EXPERIENCE

CLOUD ARCHITECT INTERN   February 2023 – May 2023
Quadrant Technologies (*formerly Quadrant Resource*)   **Hyderabad, Telangana, India**
- Applied Azure Services and DevOps practices to enhance team expertise in cloud architecture and design
- Assisted senior staff in refining cloud architecture, reducing deployment time by 30% through optimized strategies
- Utilized AWS, Docker, and Kubernetes to improve team adaptability, resulting in efficient cloud infrastructure management

PYTHON DEVELOPER INTERN   August 2022 – September 2022
Padaayi Foundation - Internshala   **Hyderabad, Telangana, India**
- Developed an OpenCV-based solution for Indian Sign Language, achieving 95% gesture recognition accuracy
- Trained a model using OpenCV and Mediapipe to improve hand sign recognition for the hearing and speech impaired
- Optimized gesture recognition for speed and accuracy, enhancing communication efficiency.

PROJECTS

Multi-View Text-to-Image GAN for Car Model Generation   **September 2024 - December 2024**
Developed a **GAN-based model** to generate **top, front, and side** views of cars from a single textual description, bridging the gap between **2D text-to-image models** and **3D object generation**. Processed **1,200 3D car models** from **ShapeNet**, achieving **92% semantic alignment** with **BERT embeddings** and stabilizing training over **160 epochs** using **WGAN-GP.**

Racism Detection through Stacked Ensemble GCR-NN Model   **December 2022 – March 2023**
Engineered a **Deep Learning** model combining **GRU**, **CNN**, and **RNN** architectures to detect and block racist remarks on social media platforms (**Twitter**). Achieved **92% accuracy** in identifying harmful content, contributing to a **95% reduction** in the dissemination of such remarks.

Retail Domain Pricing   **May 2022 - July 2022**
Developed a **Flask**-based application to automate **retail pricing** by analyzing factors like **cost, inventory, profitability**, and **perishability**, reducing manual effort by **50%**. Incorporated **emotional pricing strategies** (e.g., charm pricing) to optimize decisions, cut operating costs, and enhance productivity.

ACHIEVEMENTS

Student Club - DISHA
- **Technical Team Lead (2021-2023)**: Led technical initiatives, improving team efficiency and project outcomes.
- **Treasurer (2020-2021):** Managed club finances, ensuring accurate cash flow and account handling.
- **Technical Team Member (2019-2020):** Enhanced club's online presence through photography, social media management.