

VASISTA TUMMALA

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OBJECTIVE

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, R, Flask, Spring, Spring Boot, React

Technical Skills: AWS, Azure, Docker, Kubernetes, CI/CD, Microservices

Databases: SQL, MySQL, SQLite, Oracle

Tools and Technologies: Tableau, Postman, Jira, Miro

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.