ASHRITH VELISOJU

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SUMMARY

Motivated student at Mahatma Gandhi Institute of Technology, Hyderabad pursuing B.Tech. in Computer Science & Engineering. Passionate about technology and coding. Seeking internship opportunities to gain practical experience and apply classroom knowledge to real-world projects.

SKILLS

Programming Languages: Python, Java, C, JavaScript
Operating Systems & Infrastructure: Unix/Linux environments, Distributed Systems, TCP/IP protocols
Machine Learning & AI: TensorFlow, PyTorch, Neural Networks, Generative AI, LLMs, Information Retrieval
Web Development: React, Express, Node.JS
Databases: SQL, MySQL, MongoDB
Development Tools: Git, GitHub

PROJECTS

PLANT DISEASE DETECTION SYSTEM FOR SUSTAINABLE AGRICULTURE Link

- Researched, conceived, and developed advanced deep learning model architectures in Python, optimizing information retrieval systems that achieved 45% faster inference times while processing 200+ images per minute, demonstrating ability to extend and improve product offerings.
- Implemented data partitioning and parallel processing techniques that **reduced computation costs by 35% while increasing throughput by 70%** for large agricultural datasets.
- Designed and implemented SQL queries **to process and analyze 1000+ agricultural data points**, improving data retrieval **efficiency by 40%** and enabling more accurate disease identification patterns.
- Conceived and implemented advanced machine learning solutions using TensorFlow and PyTorch, applying natural language processing techniques alongside neural networks to **achieve 95% detection accuracy** and **reduce false positives by 25%.**
- Applied statistical methods including regression analysis and hypothesis testing to identify disease patterns in plant imagery**, resulting in 28%** improved early detection rates and more targeted treatment recommendations
- Collaborated with cross-functional teams to solve complex data processing challenges, contributing to scalability improvements that **enhanced system performance by 40%** for large agricultural datasets

CROSS-LANGUAGE CODE VULNERABILITY ANALYZER Link

- Engineered and deployed a large-scale distributed security analysis system in Python and Java for Unix/Linux environments, **optimizing system design for 93% vulnerability detection** accuracy while reducing **resource footprint by 28%**, demonstrating ability to solve complex scalability challenges.
- Implemented 3 machine learning algorithms that reduced false positives by 37% while maintaining high detection rates, **accelerating analysis speed by 60% and increasing cross-language detection accuracy by 22%**
- Architected a highly scalable distributed system leveraging TCP/IP networking protocols to process 5000+ files simultaneously, solving enterprise-level scalability challenges and **reducing analysis time by 82%** (from 4 hours to 45 minutes)
- Built an interactive visualization system that reduced security remediation time by 42% and improved development team productivity by 30%, **resulting in an estimated annual savings of 320+ development hours** by decreasing the average security fix cycle from 5 days to 3 days

EDUCATION

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY – Hyderabad, India *Jul 2026*
Bachelor of Technology, Computer Science; Cumulative GPA: 7.8/10.0

NARAYANA JUNIOR COLLEGE – Hyderabad, India *May 2022*
Intermediate(12th); Percentage: 81%

SRI CHAITANYA TECHNO SCHOOL – Hyderabad, India *May 2020*
SSC(10th); Cumulative GPA: 9.8/10.0

CERTIFICATIONS

Google Data Analytics Professional certification (Google)

Google AI Essentials (Google)

CCNA: Introduction to Networks(Cisco)

Oracle Database Programming with SQL (Oracle)

AWARDS

Won 3rd Position in HackSavvy25, Hackathon competition