KOTHA USHA

Hyderabad, Telangana

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Education

Integrated M.Tech, Software Engineering   2022 – 2027
Vellore Institute of Technology – AP, Amaravati   CGPA: 9.12

Intermediate (Class XII)   2020 – 2022
Sri Chaitanya Junior College, Hyderabad   Percentage: 97.1%

Secondary School (Class X)   2019 – 2020
SPR School of Excellence, Kamareddy   Percentage: 100%

Technical Skills

- **Programming Languages:** Java, Python
- **Web Technologies:** HTML, CSS, JavaScript (Basics)
- **Databases:** MySQL
- **Machine Learning & AI:** Machine Learning, Artificial Intelligence, NLP, Multimodal AI, Model Training, Model Evaluation, Data Analysis
- **Soft Skills:** Time Management, Leadership, Technical Documentation, Project Management

Projects

Automation Billing System (Patent Registered) — Python, ESP32-CAM, Machine Learning   *2023*

- Designed and developed an automated billing system using camera-based product recognition to minimize manual checkout processes.
- Implemented real-time image acquisition with ESP32-CAM and a Python-based backend for product detection and billing generation.
- Trained and evaluated a machine learning model to accurately identify products and deliver end-to-end automated billing with live demonstration support.

Multimodal AI-Driven Interview Simulator — AI, NLP, Speech Analysis   *2024*

- Designed and developed an AI-based interview simulation platform delivering real-time feedback on responses, communication quality, and non-verbal cues.
- • Integrated multimodal analysis techniques combining text processing, speech evaluation, and behavioral pattern recognition to emulate real interview environments.
- Implemented structured AI-driven evaluation metrics to assess candidate performance and identify improvement areas.
- Enhanced interview preparedness and confidence by providing structured, data-driven feedback.

FinTech Finance Management and Stock Forecasting System — Python, Machine Learning   *2025*

- Designed and developed a finance management system to track personal expenses and generate structured financial insights.
- Implemented stock trend forecasting using machine learning fundamentals applied to historical market data.
- Integrated financial data analysis with predictive modeling to support informed investment-related decision-making.
- Strengthened understanding of real-world FinTech applications, data-driven analysis, and model evaluation techniques.

Certifications

- Python for Data Science – 1Stop (Hands-on training in data analysis and visualization)
- Machine Learning using R Programming – Infosys Springboard
- Design Patent Certificate – Government of India (Patent granted)