

KURNOOL RISHI KUMAR REDDY

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Professional Summary

Software Engineering student pursuing an Integrated M.Tech at VIT-AP (2022–2027), with strong foundations in Java, Python, full-stack development, and applied machine learning. Experienced in building production-level projects including deepfake detection, intrusion detection systems, and gesture-based automation. Fast learner, effective communicator, and problem solver with proven teamwork through academic clubs and a DRDO internship.

Technical Skills

Languages: Java, Python, C, R, JavaScript, TypeScript, HTML, CSS, SQL, XML

Frameworks/Libraries: React.js, Node.js, Framer Motion

Tools: Git, VS Code, Android Studio, Figma, Firebase, Ubuntu, Cuckoo Sandbox, Altair

Concepts: OOP, Data Structures, REST APIs, Machine Learning, Model-Based Code Generation, Web Scraping, Browser ML Optimization

Projects

E-Commerce Platform with Bargaining — *React, Node.js, TypeScript*

Developed a complete web-based platform similar to Amazon with a unique bargaining feature for dynamic pricing. Designed modern UI using Framer Motion and documented the system for future scalability.

Home Automation with ESP32 — *IoT, Mobile App*

Built a smartphone-controlled system for real-time home appliance automation. Integrated sensors, relay modules, and documented the full system wiring and control logic.

Gesture-Based Slide Controller — *Python, OpenCV, Raspberry Pi*

Developed a Python-based hand gesture recognition system to control PowerPoint slides. Enabled webcam/mouse simulation via Raspberry Pi. Authored complete usage and setup documentation.

Deepfake Detection using CNN + ResNeXt-50 — *Deep Learning, Python*

Optimized a model for classifying deepfake vs. real images using a refined CNN architecture. Worked with Kaggle datasets and documented training, preprocessing, and tuning steps.

Intrusion Detection System (IDS) — *Machine Learning, Cybersecurity*

Developed a Random Forest-based IDS that detects anomalous network traffic and sends real-time Slack alerts. Deployed model with live monitoring and clear operational documentation.

Student Performance Analysis — *ML Pipeline, Classification*

Preprocessed academic datasets and built predictive models to analyze student performance. Managed missing data, outliers, and created an interpretable pipeline for classification.

Live Sign Language Conversion (Web App) — *React, Browser ML*

Developed a real-time sign language-to-text converter using browser-optimized machine learning. Achieved low-latency predictions without server dependencies.

Developer Portfolio — *React, Vite, TypeScript*

Created and deployed a portfolio website with a modern responsive layout, smooth animations, and performance optimization using Framer Motion.

Internship Experience

Software Intern – DRDO (Research Centre Imarat)

May – July 2024

Worked with Altair for model-based code generation. Contributed to internal tools and gained hands-on ex-

perience building a live ML-powered sign conversion site using React. Participated in real project reviews and learned efficient deployment and optimization workflows.

Education

VIT-AP University Integrated M.Tech in Software Engineering <i>(Currently in 3rd Year)</i>	<i>2022 – 2027</i>
Sri Chaitanya Junior College Intermediate (M.P.C)	<i>2020 – 2022</i>
Sri Chaitanya Techno School	<i>Graduated 2020</i>

Campus Leadership & Clubs

PR Team Member – Next Nexus Club Mentored students in writing and submitting research papers. Coordinated with professors to facilitate academic collaboration.	<i>Nov 2024 – Mar 2025</i>
Research Team – Innovators Quest Club Managed event planning, documentation, and schedule tracking. Improved research coordination and backend logistics.	<i>Jun 2023 – Apr 2024</i>
Cloud Computing Enthusiast – CSI Club (SPM) Explored cloud platforms and virtualized services. Built foundational skills in deployment and cloud architecture understanding.	<i>Jan – Jun 2023</i>

Soft Skills

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|---------------------------------|-------------------|
| • Communication & Collaboration | • Time Management |
| • Critical Thinking | • Problem Solving |
| • Teamwork & Coordination | • Adaptability |

Languages

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| • English – Fluent | • Hindi – Intermediate |
| • Telugu – Native | |