

DIVYASRI KARROLLA

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Professional Summary

Final-year B.Tech student in Electronics and Computer Engineering with strong foundations in Java, Spring Boot, REST APIs, MySQL, Artificial Intelligence, Embedded Systems, and Full Stack Web Development. Passionate about building scalable web applications and intelligent IoT solutions. Seeking Software Development, Backend Development, or Full Stack Development opportunities.

Education

Anurag University, Hyderabad

Expected May 2026

Bachelor of Technology (Electronics and Computer Engineering) CGPA:
8.22 / 10

Technical Skills

Programming Languages: Java, Python, C, Embedded C

Web Technologies: Spring Boot, REST APIs, JavaScript, HTML, CSS

Database: MySQL

Embedded Systems: Arduino, Flex Sensors, DFPlayer Mini

Networking & Security: IPsec VPN, AES, SHA, Static Routing

Tools: Git, GitHub, VS Code, Eclipse, Arduino IDE

Projects

SpendWise – Personal Expense Tracker

- Developed a full-stack expense management application using Spring Boot and MySQL.
- Built RESTful APIs for transaction management and reporting.
- Implemented BCrypt-based user authentication and authorization.
- Created interactive dashboards using Chart.js for real-time visualization.
- Added CSV import/export functionality and theme customization.

Gesture-Based Voice Communication Device

- Developed a wearable communication system for aphonic individuals.
- Processed flex sensor data using Embedded C and Arduino.
- Achieved over 95% gesture recognition accuracy.
- Integrated DFPlayer Mini for real-time voice output generation.
- Contributed as co-inventor in Indian Patent filing under Anurag University.

Secure Hybrid Cloud VPN and Disaster Recovery System

- Designed secure hybrid cloud architecture using Cisco Packet Tracer.
- Configured IPsec site-to-site VPN tunnels with AES-SHA encryption.
- Implemented FTP-based disaster recovery and backup mechanisms.
- Achieved reliable failover between primary and backup environments.

Dhriti – IoT-Based Autism Support System

- Developed an IoT-based monitoring system for children with Autism Spectrum Disorder (ASD).
- Integrated heart rate, sound, light, and motion sensors for real-time stress monitoring.
- Built an emergency alert mechanism to notify caregivers during abnormal conditions.
- Improved child safety through continuous environmental and physiological monitoring.

Certifications

- Apply AI: Analyze Customer Reviews – Cisco Networking Academy (2026)
- Introduction to Cyber Security – Cisco Networking Academy
- Cyber Security Fundamentals – NPTEL
- Java Programming – Simplilearn

Achievements

- Co-inventor of Indian Patent for Gesture-Based Communication Device for Aphonic Individuals (2025).
- Co-author of research paper on Hybrid Cloud Security and Disaster Recovery.
- Achieved 95%+ gesture recognition accuracy in embedded communication system.
- Maintained CGPA of 8.22 throughout B.Tech.