Abhigna Mydukuru

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Technical Skills

- **Programming Languages:** *Java*, *Python*, *HTML*, *CSS*, *JS*, and *SQL*.
- **Technologies/Frameworks:** *Git*, *GitHub*, *ReactJs*, *BootStrap*.
- **Technical:** *Data Science*, *Data Science Analysis*.

Soft Skills

- *Continuous Learning*, *Articulate Interaction*, *Problem-Solving*, *Resilience*.

Education

Sathyabama university, Bachelor of Technology in Electronics and communication Engineering. 2021–2025|CGPA:8.15/10

Bhavana Junior College, Board of Intermediate Education in M.P.C 2019–2021|CGPA:8.1/10

Keshava Reddy English medium high school,Board of Secondary Education. 2018–2019|CGPA:9.5/10

Projects

Segregation of Dry and Wet Waste

- Developed a project on the segregation of dry and wet waste using a microcontroller. Designed and implemented an automated system for efficient waste sorting. Enhanced waste management processes through innovative technology. Demonstrated strong technical skills and a commitment to sustainability.

Novel technologies for early detection and mitigation of avalanches

- Developed and presented a deep learning model using Long Short-Term Memory (LSTM) networks for early detection and mitigation of avalanches. The project involved analyzing historical avalanche data and real-time environmental factors to predict potential avalanche occurrences. Successfully participated in the Smart India Hackathon 2023, showcasing the project in the grand finale.

Ultra-Low-Power Montgomery Multiplier Using GNRFET Technology

- Designed and implemented a power-efficient Montgomery multiplier using Graphene Nanoribbon FETs (GNRFETs); compared with a MOSFET-based model in HSPICE for optimized power performance. Focused on cryptographic applications and authored a conference paper based on the research.

Internships

Data Science: Completed a structured online internship focused on data science fundamentals, including Python programming, data analysis, and machine learning concepts. Gained hands-on experience through guided projects and received a completion certificate.

IOT: Completed a certified online internship focused on Internet of Things (IoT) technologies. Gained hands-on experience with microcontrollers, sensors, and real-time data collection. Worked on practical IoT-based projects and learned how to integrate hardware and software components for smart applications.

Achievements

Python Programming Certification: Completed a college-level certification focusing on Python basics, data structures, and algorithmic problem-solving. Built small projects and scripts to strengthen programming and logical thinking skills.

LabVIEW Certification Course: Completed a certified training program covering virtual instrumentation, data acquisition, and system design using NI LabVIEW. Gained hands-on experience in building and simulating control systems and automation projects.

Hacker Rank: Achieved 5-Star Badges in Java and SQL, showcasing expertise in programming concepts.