BETHI NAGARAJU

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Summary

Seeking an enriching career opportunity that leverages my passion and skill set within an innovative environment. My goal is to continually enhance my knowledge while contributing to the achievement of the organization's objectives and overall success.

Education

Bachelor of Technology in Mechanical Engineering & Minor Degree in Computer Science and Engineering (AI & ML)

Vaagdevi College of Engineering   July 2021 – April 2024

Diploma in Mechanical Engineering

Government Polytechnic Parkal   June 2018 – April 2021

Secondary School Education

Zilla Parishad Secondary School, Upparapally   April 2018

Technical Skills

- **Programming Languages:** Java
- **Web Development Technologies:** HTML, CSS
- **Databases:** SQL
- Data Structures and Algorithms

Projects

Pipe Inspection and Cleaning Robot

- Orchestrated a team to design a robotic system, curtailing inspection time and expediting the cleaning process in industrial pipelines.
- Integrated automated cleaning modules, optimizing efficiency and reducing manual by 60%
- Achieved seamless navigation through complex pipeline structures, significantly enhancing overall inspection coverage.
- Optimized video analysis, enabling real-time reporting and proactive maintenance strategies, reducing downtime.

Sudoku Solver

- Engineered an AI-powered Sudoku solver that consistently achieves a high success rate in solving intricate puzzles.
- Optimized backtracking algorithm, resulting in reduction in solving time while maintaining high accuracy.
- Conducted rigorous testing, ensuring robust performance across varying difficulty levels

Certifications

- Achieved Java with DSA certification – Apna College
- Achieved SQL certification – Hackers Rank