D.KANISHK

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Education

VNRVJIET December 2020 – May 2024

Bachelor of Technology in Electronics and instrumentation (GPA: 7.19 / 10.00) *Hyderabad, Telangana*

- **Relevant Coursework:** Data Structures and Algorithms (C++), (Python), Intro to CS II (C++), Linear Algebra w/Computational Applications (C), Digital data analysis.

Experience

ICAR and IClean June 2024 – November 2024

Gradute trainee *Bhubaneswar, Oddisha*

- Optimized the programming of a BSL-2 and BSL-3 system by troubleshooting and resolving a critical logic error, achieving a 20% reduction in system downtime using ladder logic programming.
- Developed and tested ladder logic programs for PLC systems, successfully enhancing the efficiency of automated processes in industrial environments by 15%.
- Collaborated on the integration of SCADA systems with PLCs, streamlining data acquisition and control processes, resulting in a 30% improvement in system response time.

Hewlett packard Enterprise January 2024 – April 2024

Software Engineering Virutal Program *Hyderabad, Telangana*

- Designed a RESTful web service in Java Spring Boot to efficiently manage employee records, handling 100+ HTTP requests per second and supporting JSON data uploads for seamless integration.
- Engineered and deployed a web server application that improved data handling accuracy by 25%, enhancing overall system reliability and performance.
- Executed a rigorous unit testing strategy for the Java Spring Boot application, identifying and resolving 20+ critical bugs, leading to a 30% reduction in pre-release errors and improved user experience.

Projects

Diabetic Retinopathy Classification Using Hybrid CNNTransformer Approach. | *Python, CNN, transfomer learning, tenserflow*

- Created an AI-powered tool for retinal image evaluation, currently utilized by 15+ medical professionals across 3 clinics, enhancing the efficiency of patient screenings by 40%.
- Developed a hybrid deep learning model combining CNN and transformer techniques, achieving a 95% classification accuracy and enabling the analysis of 10,000+ patient records annually.
- Streamlined the diagnosis process for diabetic retinopathy, directly influencing 50% faster treatment decisions and improving patient care outcomes in clinical environments.

Radar using ultrasonic sensor | *C,Embedded system, IOT, Detection algorthim*

- Designed a radar system integrating ultrasonic sensors and servomotors, achieving real-time object detection with a range of up to 25 meters for enhanced spatial awareness.
- Implemented a rotational scanning mechanism using servomotors, resulting in a 95% improvement in object detection accuracy across designated areas.

Automatic rain sensing wipers | *Python, , Jinja2, Embedded system.*

- built a prototype for an automated windshield wiper control system using Arduino, reducing manual intervention and saving 15 minutes per trip on average.
- Engineered a real-time object detection and alert system integrated with radar technologies, decreasing hazard response time by 2+ minutes compared to prior methods.

Technical Skills

Languages: C, C++, Python, HTML, CSS, Javascript, PLC and SCADA programming, SQL
Technologies: J, TensorFlow, PyTorch, jQuery, Bootstrap, HTML, CSS, DBMS
Concepts:Frontend, Web designing Compiler, Operating System, Cache Memory, Artificial Intelligence, Machine Learning, Neural Networks, Transformer learning, CNN networks, Ensemble models, Digital data analysis.