NANDITHA L
Student | Aspiring AI & Data Science Professional

CONTACT
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PROFILE

Second-year B.Tech student passionate about **technology, innovation, and community service.** Skilled in programming languages like **Python and C++**with a strong interest in **UI/UX design, game development, and data analytics** .Effective **team player** with a commitment to continuous learning and professional growth.

EDUCATION

Jerusalem College of Engineering
Bachelor of Technology in Artificial Intelligence and Data Science (Class of 2023-2027)

Relevant Coursework: Data Structures, Machine Learning, Power BI, MySQL, Python, Data Science

CERTIFICATIONS

- **Power BI**:Mastered data visualization, business intelligence, and dashboard creation.
- **MySQL**: Proficient in advanced database management and querying techniques.
- **Python for Data Science**: Acquired skills in Python programming for data analysis and machine learning.
- **360DigiTMG Certification in Data Science:** Comprehensive training in data preprocessing, exploratory data analysis (EDA), and model building.

SKILLS

- **Programming Languages:** Python, C++, SQL
- **Data Visualization:**Power BI, Matplotlib, Seaborn
- **Tools & Platforms:** MySQL, spyder IDE, Jupyter Notebook
- **Technical Expertise:**Machine Learning, Data Analysis, Dashboard Design

PROJECTS WORKED ON

Workplace Safety and Compliance Monitoring System: Developed a system to enhance workplace safety by **automating compliance checks, monitoring environmental conditions, and ensuring regulatory adherence using AI and IoT**.

LANGUAGES

- **English:**Fluent
- **Tamil:**Fluent
- **Hindi:**Proficient in reading and writing

PROJECT 1: WORKPLACE SAFETY AND COMPLIANCE MONITORING

BUISNESS PROBLEM:

To minimize safety hazards and regulatory fines, automated monitoring is needed. To maximize efficiency, it replaces manual reporting prone to delays and errors.

BUISNESS SOLUTION:

- Uses computer vision and deep learning to detect **PPE violations.**
- Monitors worker posture to prevent ergonomic hazards.
- Provides real-time alerts and compliance reports.
- Ensures regulatory adherence and enhances workplace safety.

Feature Engineering: PPE classification, pose estimation, and risk assessment.

Model 1 – PPE Detection : YOLO (v8)

Model 2 – Pose Estimation : MediaPipe

TECHNOLOGY STACK:

- Programming Languages: Python
- Libraries: Ultralytics,opencv, mediapipe,PyQt5,TensorFlow,streamlit
- Software/IDE: Spyder,Google Colab
- Database: PostgreSQL
- Version Control: GitHub
- Other Tools: roboflow

BUISNESS BENEFITS:

- Improved Workplace Safety
- Regulatory Compliance
- Operational Efficiency
- Cost Reduction
- Real-time Monitoring
- Scalability