**ABHILEKHA PATIBANDLA**

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Aspiring to work in a professional environment that provides opportunities for personal and professional growth while contributing to organization’s growth.

# WORK EXPERIENCE

# Intern Jan 2023 - Mar 2023

# PieinfoTech Virtual

Developed a vehicle detection and tracking system using Python and OpenCV, achieving over 95% accuracy in real-time video analysis and providing critical data on vehicle count and speed to enhance smart traffic and security systems.

# SKILLS

|  |  |
| --- | --- |
| **Technical Skills:** C, JAVA, Basics of Python, DBMS(MySQL)  **Soft Skills:** Adaptable, Time management, Leadership Qualities  **CERTIFICATIONS** |  |
| **Certificate of Java Foundation** by **Oracle Academy**  **Certificate of Data types in Java** by **Infosys Springboard**  **Certificate of Interactive skills** by **Infosys Springboard Certificate of Machine Learning** by **Coursera**  **EDUCATION** |  |
| **B. Tech(Computer Science &Engineering)** | **Jan 2021 - Jan 2025** |
| Swarna Bharathi Institute of Science and Technology, Khammam | **GPA:** CGPA: 8.03 |
| Learned many skills and passionate to implement them in real time environment.  **Intermediate** | **Jan 2019 - Jan 2021** |
| Susheela Memorial Junior College, Madhira College Topper during my intermediate.  **PROJECTS** | **Percentage:** 98% |

[**Detecting at-risk students with early interventions using Machine Learning techniques**](https://drive.google.com/file/d/1xHTj-mOxP5EG8OZ5TL1fEu--u7f1dFcM/view?usp=sharing)  **Nov 2024 - Jan 2025**

Provide early intervention recommendations through data analysis and predictive modelling. This project leverages machine learning techniques to identify students at risk of poor performance or dropout. By analyzing academic, behavioral, and demographic data, the model predicts at-risk students early.

The project finally identified at-risk students with 92% accuracy using machine learning models. It enabled early detection up to 4 weeks in advance, leading to timely interventions. Over 70% of flagged students showed academic improvement after support measures. The system also reduced manual analysis time by 60% and was integrated into a scalable, real-time dashboard for educators.

# [Video Abnormal Activity Detection using Deep Learning](https://colab.research.google.com/) Jul 2024 - Oct 2024

Implemented a neural network to analyze video frames and detect unusual activities. This project uses deep learning to identify unusual activities in videos, enhancing surveillance and safety systems. By analyzing spatial and temporal features through neural networks, it detects anomalies in real-time, with applications in public safety.

The system achieved an accuracy of 94% in detecting abnormal activities in surveillance videos using deep learning (CNN + LSTM). It finally detected suspicious events with a false positive rate below 6%. Real-time detection was achieved with an average processing time of <1.2 seconds per frame. The model was tested on benchmark datasets and demonstrated effective performance across various indoor and outdoor environments.

# LANGUAGES

**English** (Native proficiency)

# AWARDS

# Secured 7th position in the district level ideathon competition by TASK March 2025

Awarded for presenting our idea in an effective manner.