J. K. LIWIN JOSE

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Internship

Nexential Solutions Private Ltd **June 2023**

Web Development Intern

- Designed and developed responsive web pages using HTML, CSS, and JavaScript to improve user experience and interactivity.
- Utilized MySQL for database management, ensuring efficient data storage, organization, and retrieval.

Education

Karunya Institute of Technology and Sciences **2021 – 2025**

Bachelor of Technology in Artificial Intelligence and Data Science *Coimbatore, Tamil Nadu*

Technical Skills

Programming: Python, Java, SQL
Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, Streamlit, Hugging Face, GitHub, PyTorch
AI & ML: Deep Learning, Computer Vision, NLP, Image Processing
Data Visualization: Power BI, Excel
Development & Cloud: APIs, Docker, Google Cloud Platform (GCP)
Generative AI & LLMs: RAG, OpenAI, Google AI Studio, Claude, Cursor, Windsurf

Projects

Smart Focus: A Deep Learning-Based Student Engagement Tracking System | *Python, OpenCV, YOLO, Face Recognition*

- Developed a deep learning-powered classroom monitoring system using YOLOv11 and face recognition to detect student behaviors, automate attendance, and track engagement.
- Trained and optimized custom models on collected datasets to classify students as attentive or non-attentive, achieving a 95% improvement in monitoring efficiency.

Wildlife Animal Detection System | *Python, YOLO, Computer Vision, Deep Learning*

- Built a real-time animal detection and classification system using Python and YOLO (Ultralytics), enabling accurate multi-class detection from images and video streams.
- Designed the end-to-end computer vision pipeline, including dataset preparation, model training, inference, and result visualization for wildlife monitoring applications.

Computer Vision-Based Image Comparison and Change Detection | *Python, OpenCV, NumPy, Streamlit, PIL*

- Built an interactive Streamlit web app to detect and visualize changes between two images using OpenCV-based contour detection.
- Implemented an image difference analysis pipeline with thresholding, bounding box visualization, and real-time user uploads for efficient change detection.

Student Performance Prediction | *Python, Streamlit, scikit-learn, Pandas, NumPy*

- Developed a machine learning web app to predict student pass/fail outcomes using RandomForestClassifier trained on academic and demographic data.
- Implemented an interactive Streamlit UI with input validation, confidence scores, and real-time saving of predictions for tracking student performance trends.

Certifications & Courses

End-To-End Machine Learning Operations (MLOps) With Azure Machine Learning
MongoDB Python Developer Path
CognitiveClass.ai - Deep Learning Fundamentals
Kaggle - Data Visualization
Kaggle - Pandas
Internshala - Data Science
SUN - JAVA