SAMARTH MORE

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SUMMARY

Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals.

PROFESSIONAL EXPERIENCE

IOTLYNX Technologies Pvt Ltd — **IOT Engineer**
January 2024 – July 2024 | Pune, India

- Evaluated 24GHz MR24HPC1 FMCW radar vs. traditional IR/ultrasonic sensors; achieved >90% motion, 85% full, and 80% micro-motion accuracy.
- Built real-time monitoring system using Arduino IDE & Seeed Studio XIAO nRF52840 Sense.
- Demonstrated robustness in varied environments and material penetration.
- Published findings with applications in security, healthcare, and smart spaces.
- Technologies Used: mmWave Radar (FMCW), Arduino, Python, Data Analysis, Signal Processing.

EDUCATION

Diploma-School of Polytechnique **(GPA-85.5)**
BTech in Electronics & Communication Engineering (AIML)**(CGPA-8.31)**

PROJECTS

Blood Cell Image Classification Using CNN - Machine Learning

A. Developed a CNN-based deep learning model to classify blood cell images into four categories (EOSINOPHIL, LYMPHOCYTE, MONOCYTE, NEUTROPHIL) with 98.5%accuracy.
B. Preprocessed and augmented image data using TensorFlow's ImageDataGenerator, resizing images to 244x244 pixels and normalizing pixel values.
C. Designed a multi-layer CNN architecture with convolutional layers, batch normalization, dropout, and max-pooling to optimize performance.
D. Trained the model using Adam optimizer and categorical cross-entropy loss, implementing early stopping to prevent overfitting.
E. Evaluated model performance using classification reports and confusion matrices, visualized training progress with matplotlib.
F. Utilized Python libraries (TensorFlow, Keras, Pandas, Scikit-learn) for data preprocessing, model development, and evaluation.

Oriented Object Detection for Houses and Tennis Courts - Machine Learning

A. Developed a real-time object detection model using YOLOv8n-OBB to detect and estimate orientations of houses and tennis courts in aerial imagery.
B. Curated a custom dataset with 198 training, 57 validation, and 28 test images annotated with oriented bounding boxes (OBB).
C. Trained for 50 epochs on RTX 3050 Ti with AdamW optimizer and YOLOv8 augmentations (image size: 640×640).
D. Achieved mAP50-95: 0.5451; performed better on tennis courts (mAP50: 0.695) than houses (mAP50: 0.395).
E. Enabled real-time inference with 22.9ms/image (~68 FPS).
F. Addressed challenges like missed detections due to high confidence thresholds and annotation inconsistencies.

Technical Skills

- **Language:**Python
- **Frameworks/Tools**: TensorFlow, Pytorch, Pandas, NumPy, Excel,
- **Domains**: Generative AI, Data Engineering, SDLC Automation, Predictive Analytics, Big

COURSES AND CERTIFICATIONS

- Deep Learning A-Z 2025: Neural Networks, AI & Chatgpt prize-Udemy
- Deep Learning for NLP: Introduction-Infosys Springboard
- Fundamentals of NLP: Preprocessing Text Using NLTK & SpaCy-Infosys Springboard

EXTRACURRICULAR ACTIVITIES

- Runner-up in IdeaGo tournament
- Won College E-sports Tournament