ANUBHAV ANAND

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Work Experience

Koireader Technologies Private Limited   **July 2024 – December 2024**

Computer Vision intern   *Bengaluru, Karnataka*

- Developed and deployed end-to-end computer vision systems for warehouse and truck yard automation, including parcel state classification (open/closed) and container text extraction using YOLOv8, EfficientDet, and Tesseract OCR, with automated PDF report generation.
- Optimized real-time inference and 3D image processing pipelines by integrating custom CUDA kernels and deploying models with TensorRT, ONNX, and PyTorch, achieving up to 2× speedups on edge devices and GPU clusters.
- Calibrated multi-camera systems using OpenCV and non-linear optimization techniques for accurate 6-DoF pose estimation and spatial alignment, while contributing to scalable CI/CD deployment workflows via Docker.

Celebal Technologies   **May 2023 – August 2023**

Data Science Intern   *jaipur, Rajasthan*

- Designed and deployed supervised ML models (e.g., XGBoost, Random Forest, Logistic Regression) using Python, scikit-learn, and PySpark, orchestrated on AWS SageMaker.
- Engineered robust feature pipelines and performed statistical analysis on structured (PostgreSQL, SQL Server) and unstructured (text, JSON) datasets; applied hypothesis testing and dimensionality reduction techniques to optimize model performance.
- Automated end-to-end ML workflows using Apache Airflow and MLflow for pipeline orchestration and experiment tracking; containerized deployments with Docker and integrated CI/CD pipelines for production readiness.

Projects

Automatic Attendance System Using Face Recognition | *Python, OpenCV, mediapipe,Pillow,CNN*   **Github**

- Engineered an end-to-end attendance management system leveraging face recognition for student identification, using Convolutional Neural Networks (CNN) for feature extraction and classification, achieving 96.82 accuracy and 96.97 using pre-trained ResNet-50 for robust facial feature detection
- Developed a Flask web application to interface with the model, deploying a real-time face detection pipeline using OpenCV and MediaPipe to capture, align, and classify student faces. Attendance was automatically logged into an Excel sheet based on real-time facial recognition outputs.

Microservices-based Order Tracking System | *Python, DynmoDB , Flask, Redis, AWS*   **Github**

- Developed a microservices-based order tracking system and implemented DynamoDB with Redis caching, improving latency by 30% and reducing database queries by 40%.
- Optimized a machine learning-based payment fraud detection model, reducing false positives by 20% and enhancing transaction reliability.
- Enhanced an AWS Lambda-based notification service through cross-functional collaboration, improving system scalability and operational efficiency.

Education

poornima college of engineering   **2020 - 2024**

Bachelor of Technology (B.tech) in Computer Engineering, CGPA: 7.74   *Jaipur, Rajasthan*

Technical Skills

Languages: C++, Python, Machine learning, Computer vision,sql
Libraries / Frameworks: Tensorflow,NodeJS,Mongodb,Django,flask
Tools / Platforms: Git,Linux, Heroku,Excel,PowerBI,Docker
Coursework: Data Structures, Algorithms, OS, DBMS, Computer Networks

Achievements

- I have secured two times winner at Child Right Congress(State Level).
- 28th/2000 college rank at Geeksforgeeks.
- I got a global rank 4898th rank among 27k participants in the Meta Hacker Cup.
- Solved 1000+ coding problems on different platforms.