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Software Engineer | Machine Learning

Backend Engineer with +4 years of experience, specialize in developing end-to-end AI solutions, combining Machine Learning and Computer Vision to solve real-world problems. At Anyone IA, I worked on E-commerce and Financial projects, building data pipelines to extract business insights, developing predictive models for credit risk, and implementing CNN-based image classification systems. One of my key projects involved leading a team to build a Computer Vision solution for optimizing space in supermarket trailers. Using **YOLOv8**, we developed an object detection system with a FastAPI backend, Redis queue, and a Streamlined interface, enabling real-time insights for logistics optimization. I thrive on integrating AI models into scalable, production-ready solutions, leveraging tools like **Python, Docker, Redis, OOP, SQL, and NoSQL.** Passionate about creating impactful, data-driven products, I seek to contribute to innovative AI/ML projects while continuously growing as an engineer.

Work Experience

QA Engineer at Sofka Technologies *Sep 2024 to date*

Sofka Technologies is a technology company that offers tailored experiences and solutions, ensuring clients receive sustainable and scalable products over time.

- Supported load testing efforts to ensure seamless transaction processing for Banco Pichincha, the largest bank in Ecuador. My role focused on evaluating system performance, identifying potential bottlenecks, and ensuring compliance with performance requirements.

Main Technologies: K6 Load testing, Azure Pipelines.

Machine Learning Engineer at Anyone AI (Part time) *Sep 2024 to date*

Anyone AI is an organization that provides a platform for learning and developing skills in Artificial Intelligence and Machine Learning.

- Developed an end-to-end Computer Vision solution for detecting objects and empty spaces in supermarket trailers, leveraging YOLOv8 for object detection. The system included a FastAPI backend for processing images, a Redis queue for efficient task management, and a Streamlit-based web interface for real-time visualization. This solution optimized space utilization and improved logistics efficiency.
- Implemented an end-to-end car classification solution using Convolutional Neural Networks (CNNs) with TensorFlow, allowing accurate categorization of vehicle types based on images.

Main Technologies: Python, Tensorflow, Keras, YoloV8, Label Studio, FastAPI, Redis, Streamlit.

Tech Lead at Cobis Topaz *Jul 2022 to Sep 2024*

Cobis Topaz is a technological powerhouse specializing in digital solutions for the financial world.

- Represented my company in presenting the camera module solution to Banistmo, a leading bank in Panama.
- Led the demonstration of our software in production environments, showcasing its capabilities while ensuring it met all functional and nonfunctional requirements.

Main Technologies: Java, MySQ, AWS Cloud.

Software Developer at Clear Minds Consultores *Jun 2021 to Jul 2022*

Clear Minds Consultores is a company that provides high-quality talent, primarily software developers, to other businesses.

- Contributed to the development of the core banking system for the accounts module at Cobis, a leading financial technology provider. My role involved implementing backend functionalities, optimizing database queries, and ensuring system reliability to support banking operations.

Main Technologies: Java, MySQL, AWS Cloud, Azure DevOps.

Projects

Exploring Supervised Learning with DengAI: Predicting Dengue Cases (https://lnkd.in/e59Fk_Y4**)**

- Participated in the DengAI competition hosted by DrivenData. The challenge focused on predicting the number of dengue cases using atmospheric and temperature data, pushing the boundaries of data-driven decision-making in public health.
    - K-Nearest Neighbors (KNN)
    - Decision Tree Regressor
    - XGBoost Regressor (XGBRegressor)
    - Boosting methods
    - Extra Trees Regressor
    - Bagging Regressor

Smile Detection using CNNs & Pretrained Models

- The project focused on training Convolutional Neural Networks (CNN) with images of people smiling and not smiling, preparing the architecture to accurately classify facial expressions. Throughout the project, I implemented and fine-tuned:
    - VGGs
    - InceptionResNetV2
    - ResNet50
    - InceptionV3
    - DenseNet
    - MobileNetV2

Skills

Tech Skills: Python, Scikit-learn, Tensorflow, Keras, YOLO, PlantCV, MySQL, Cassandra, Java, C#**.**
Languages: Spanish: Native**,** Intermediate English.

Education

Universidad Internacional de Valencia - Spain *Apr 2024 to date*
Official Master's Degree in Big Data and Data Science
Escuela Politécnica Nacional - Ecuador *Apr 2015 to Sep 2021*
Engineer in Electronic and Information Networking