Naif ASSWIEL

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SUMMARY

Second-year Master's student in Artificial Intelligence at Le Mans University, seeking a 6-month internship as an AI developer or in R&D.

EDUCATION

Le Mans University - Claude Chappe Institute of Computer Science. Sep.2024 - Present
Master's Degree in Artificial Intelligence.

University of Montpellier Sep.2021 – May.2024
Bachelor's Degree in Computer Science.

EXPERIENCE

Intern @ LIUM May - Jul 2025
- Reproduced state-of-the-art results through large-scale model training and analyzing their limitations.
- Tested models on different datasets and modalities to uncover vulnerabilities and improve their performance.
- Leveraged temporal deepfake detection models to run experiments and assess their performance on benchmark datasets.

PROJECTS

Improving the pronunciation of Conditional Flow Matching TTS models (ongoing)
- Trained a TTS system using Conditional Flow Matching and evaluated pronunciation using Wav2Vec-BERT
- Implemented reinforcement learning to reduce errors and improve the system's robustness.

TrAP – TroubleMaker Agent Platform [Publication]
- Developed a pedagogical agent for medical education using LLMs and SLMs.
- Implemented a RAG/SLM mechanism to generate challenging medical questions and evaluate system performance.

AnimusVision
- Built deep learning models for image classification using CNNs and transfer learning to improve accuracy and reduce overfitting.
- Implemented GANs and VAEs to generate, denoise, and colorize images via latent space representations.

Real-time Object detection
- Developed a real-time vehicle detection system using YOLOv3, capable of identifying and localizing four vehicle categories with a modular architecture and an optimized video processing pipeline.

ShopEase – E-commerce Mobile App
- Built a Flutter e-commerce app with FastAPI backend and Firebase for auth and data.

CERTIFICATIONS

Deep Learning Specialization – Coursera
- Explored CNNs, RNNs, LSTMs, Transformers, and techniques like transfer learning and fine-tuning.
- Hands-on experience with real-life applications such as object detection, face recognition, and machine translation.

Machine Learning Specialization – Coursera
- Explored and applied methods such as classification, regression, and recommender systems.

SKILLS

- **Machine learning & Processing**: TensorFlow, Transformers, PyTorch, Scikit-Learn, NumPy, Pandas.
- **Data processing**: NumPy, Pandas, PySpark
- **Programming Languages**: Python, JavaScript, C, SQL.
- **Tools & Frameworks**: Git, SLURM, MongoDB, Node.js/Express.js, FastAPI, Django, Ollama.

LANGUAGES

- **English**: B2 - **French**: Fluent - **Arabic**: Native