

TIAGO TEIXEIRA

ARTIFICIAL INTELLIGENCE ENGINEER

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SUMMARY

AI & Computer Vision Engineer with a strong background in machine learning, deep learning, and software engineering. I've worked across the full AI lifecycle from data collection and model training to deployment on real hardware. I'm passionate about building practical AI systems that solve real-world problems and deliver meaningful impact. What drives me is turning cutting-edge research into usable, concrete solutions.

EDUCATION

CentraleSupélec 2021-2022
Double degree in AI & Data Science

- Deep Learning
- Machine Learning
- Reinforcement Learning

ECE Paris 2017-2021
Master's degree in Computer Science

- Software development
- Web development

TECH SKILLS

Programming: Python, C/C++, HTML/CSS/JS
AI & ML Frameworks: PyTorch, TensorFlow, OpenCV, LangChain
MLOps tools: Weights & Biases, AIM, FiftyOne
Model Optimization: ONNX, Quantization, Pruning, Hardware Adaptation, Network Optimization, Uncertainty Quantification
Deployment Tools: Docker, Git, AWS
Visualization: Dash, Streamlit

SOFT SKILLS

Team player - Rigorous - Curiosity and continuous learning - Adaptability

LANGUAGES

English	Fluent (TOEIC 955)
Spanish	Fluent
Portuguese	Fluent
French	Native

WORK EXPERIENCE

Artificial Intelligence engineer

Nov 2022 - Feb 2025

Airbus, Toulouse

- Improved autonomous aircraft landing systems using advanced computer vision and machine learning to enhance navigation accuracy and safety.
- Built and deployed a modular pipeline for object detection, pose estimation, and segmentation, using MLOps best practices.
- Optimized embedded AI models through quantization to meet real-time performance requirements on limited-resource hardware.
- Presented technical results and progress to internal stakeholders.
- Developed speech-to-text prototypes, from model training to hardware integration, improving accessibility and human-machine interaction.
- Led experiments with large language models (LLMs), creating AI-powered tools such as chatbots.
- Collaborated with cross-functional teams in France and Silicon Valley to drive innovation in AI-based navigation.

Computer vision intern

Apr 2022 - Oct 2022

Aubay, Paris

- Applied computer vision and machine learning algorithms, including RNNs and tracking models, to accurately detect accidents in dashcam videos.
- Managed and preprocessed large datasets of dashcam footage.
- Trained RNNs to recognize patterns indicative of accidents and evaluate the model's effectiveness using real-world video data.
- Developed a Dash application to demonstrate the project's capabilities, from video input to accident detection.
- Worked closely with the team and stakeholders, sharing insights and progress.
- Prepare and deliver a comprehensive presentation on the project's methodology, results, and impact.

Data Scientist intern

Apr 2021 - Aug 2021

Enedis, Paris

- Developed a simulation model using Multi-Agent Systems (MAS) to analyze smart meter communication flows and optimize network performance.
- Built interactive Dash dashboards to visualize simulation results and support decision-making for stakeholders.
- Applied advanced data analysis techniques to improve simulation accuracy and reduce prediction error.
- Achieved a 20% reduction in KPI prediction error, validating the model's reliability in real-world scenarios.