# Alberto Eusebio

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## SUMMARY

Research Engineer at Huawei Paris studying episodic memory and continual learning in LLMs. Previously developing AI agents for enterprise customers (Salesforce). Background in trustworthy AI for cancer prognosis (IRCCS Milan). 4 peer-reviewed publications (IEEE EMBC, ESMO AI, ECAI, ECML PKDD). MSc 110/110, BSc 110/110 cum laude, Alta Scuola Politecnica.

## EDUCATION

**MSc Computer Science and Engineering (AI) – Politecnico di Milano** Milan, Italy | 09/2023 – 12/2025

Final Grade: 110/110 highest honors. Alta Scuola Politecnica: Top 150 engineering students across Politecnico di Milano and Politecnico di Torino.

**BSc Computer Engineering – Politecnico di Torino** Turin, Italy | 09/2020 – 07/2023

Final Grade: 110/110 cum laude. Intraprendenti Honor Program: Top 200 engineering students at Politecnico di Torino.

## RESEARCH EXPERIENCE

**Research Engineer – Huawei Paris Research Center** Paris, France | 10/2025 – Present

- **Co-authored 2 NeurIPS 2026 submissions** (currently under peer review).
- Designed and maintained training pipelines 1,000+ multi-GPU full fine-tuning runs for Mistral and LLama models using DeepSpeed ZeRO-2. Built gradient-tracking infrastructure to regularize fine-tuning and reduce catastrophic forgetting.
- Built an end-to-end synthetic data pipeline that generated 21K+ high-quality training samples and developed an LLM-as-judge evaluation system for automated quality filtering, achieving 98–99% agreement with human annotators across 500+ test cases.

**Graduate Student Researcher – National Cancer Institute (IRCCS)** Milan, Italy | 09/2024 – 12/2025

- **4 peer-reviewed publications:** IEEE EMBC 2025, ESMO AI 2025, AEQUITAS @ ECAI 2025, PharML @ ECML PKDD 2025**.**
- **Reviewer** for the 47th IEEE EMBC conference.
- Developed 2D/3D ResNet50 pipelines for 6-month survival prediction in advanced NSCLC (385 patients, Apollo11 cohort), achieving 0.74 F1 with explainability and fairness assessments**.**

**Graduate Student Researcher – NECST Lab** Milan, Italy | 11/2023 – 06/2024

- Built Aurora, a mental well-being mobile app powered by fine-tuned Meta-Llama-3.1-70B (AWS Bedrock), with serverless backend (Lambda) and React Native frontend. 27-participant user study.
- **Won Hack at the NECSTCamp** (36-hour AI hackathon).

## PROFESSIONAL & LEADERSHIP EXPERIENCE

**Solution Engineer Intern – Salesforce** Milan, Italy | 09/2024 – 07/2025

- Built and demoed GenAI agents on the Agentforce platform for 5+ enterprise clients, integrating sales and service automation workflows under real security and compliance constraints.

**Software Engineer & Team Leader – Student Team Policumbent** Turin, Italy | 03/2021 – 10/2023

- Led 100+ students across 9 engineering divisions. **Won IHPVA World Human Powered Speed Challenge** 2022 & 2023, matching the **world record**. Built embedded telemetry (Raspberry Pi, ESP32, MQTT) for vehicles at 130+ km/h.

## PROJECTS

**Autonomous Grapevine Pruning** – PIC4SeR Laboratory / Yanmar S.P.A. (Alta Scuola Politecnica) Turin, Italy | 2024 – 2025

- End-to-end computer vision pipeline for autonomous agricultural pruning. Built a Stacked Hourglass Network for vine keypoint detection, a graph-based topology reconstruction module, and heuristic pruning logic derived from expert agronomic knowledge. Achieved 95% precision, 90% recall, 92% F1 under variable real-world lighting and vine density conditions.

## PUBLICATIONS

Trustworthy Assessment of 2D Model for Lung CT Scans. *IEEE EMBC 2025* (DOI: 10.1109/EMBC58623.2025.11254399)
CT-based 3D ResNet50 for Predicting Survival in NSCLC Patients. *ESMO AI 2025* (DOI: 10.1016/j.esmorw.2025.100335)
Trustworthy Assessment of 2D Deep Learning Model for Lung CT Scans. *AEQUITAS @ ECAI 2025*
Trustworthy Evaluation of 2D Deep Learning Model for Lung CT Scans. *PharML @ ECML PKDD 2025*

## SKILLS

**Programming:** Python, Bash, C, C++, Java, SQL. **ML/AI:** LLMs, ViTs, CNNs, Deep Learning, Neural Networks, Distributed Training, Continual Learning, NLP, Computer Vision, Model Evaluation & Benchmarking, Explainability, Post-training, Training & Data Pipelines. **Frameworks & Libraries:** PyTorch, DeepSpeed, HuggingFace Transformers, TensorFlow/Keras, Scikit-Learn, Pandas, NumPy, JAX. **Infrastructure:** AWS, Docker, Git, Linux, REST API. **Languages:** Italian (Native), English (C1 Advanced), German (A2 Goethe-Zertifikat).