

# Noé Flandre

AI Research Engineer

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LinkedIn | GitHub | Hugging Face | Website

## Profile

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Junior AI research engineer with publications on LLMs and R&D internships (aerospace & academia). Looking for research-driven opportunities to advance and apply LLMs in real-world AI systems.

## Publications

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- Promoting empathy in decision-making by turning agent-based models into stories using large-language models. Daumas C., Giabbani P. J., **Flandre N.** (2025). Journal of Simulation
- Can large language models learn conceptual modeling by looking at slide decks and pass graduate examinations? an empirical study. **Flandre N.**, Giabbani P. J. (2024). ER 2024 (EmpER'24)

## Skills

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**ML/AI:** PyTorch, TensorFlow, Transformers (Hugging Face)

**Data & MLOps:** Python, R, SQL, Pandas, NumPy, Docker, Git, REST, Streamlit, Gradio

**Cloud & DB:** Google Cloud Platform, MongoDB, MySQL, ChromaDB

## Experience

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### AI Research Engineer Intern — Airbus Defence and Space

*Conducted research on the underlying AI model of Airbus Geo Explore*

Toulouse, France

Jun 2025 — Nov 2025

- State-of-the-art review of fine-tuning techniques for VLMs in remote sensing
- Built a remote sensing benchmark suite to compare models and training strategies.
- Implemented end-to-end fine-tuning pipelines on GCP

### Research Intern (LLMs & Simulation) — VMASC

*Applied LLMs to simulation and decision-making*

Suffolk, VA, USA

Aug 2024

- Leveraged GPT-4o and Claude 3.5 to explain simulation outputs
- Applied BERT/BART for extractive/abstractive summaries
- Evaluated outputs with BLEU, ROUGE, and METEOR

### Research Intern (LLMs) — Miami University

*LLMs for conceptual modeling and multimodal evaluation*

Oxford, OH, USA

May 2024 — Jul 2024

- Linked causal maps using LLMs and word embeddings
- Assessed LLMs on master-level conceptual modeling tasks
- Studied prompt engineering impacts on task performance and reliability

## Education

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### IMT Mines Alès — MEng, Data Science & AI

Alès, France

- Hackathons : Ariane Group (3rd) / Altémed (1st) / Best English Debater

Expected 2025

### IIT Bombay — Exchange Semester

Mumbai, India

- AI & Image Processing

Jan 2025 — May 2025

## Projects

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### NanoCLIP: Lightweight Vision-Language Model

Dec 2025

- Implemented and trained a CLIP architecture from scratch (PyTorch)

### DeepSeek Models — Jailbreak Robustness Evaluation

Apr 2025

- Engineered local/API-based jailbreaks, assessment with Claude API.

### GPT-2 Training From Scratch (2xH100, PyTorch DDP)

Mar 2025

- Trained a virgin GPT-2 model on FineWeb-Edu 10B evaluated on HellaSwag.