



# Rayane Tarkany

## Ingénieur Générative IA

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AI Engineer passionate about data processing and LLM, I wish to contribute to innovative projects using my skills in Machine Learning and Artificial Intelligence.

### Education

**MASTER IN ARTIFICIAL INTELLIGENCE** - Heriot-Watt University, Edinburgh, UK 2022 – 2024

Grade : A- / 2:1

*Key Modules:* Data Mining and Machine Learning, AI Agents, Biologically Inspired Computation, Big Data Management, Conversational Agents and Spoken Language Processing.

*Thesis:* Development of a voice chatbot integrated into the Furhat robot as part of a scenario, using NLP techniques.

**ENGINEERING DEGREE – NETWORKS AND INTELLIGENT SYSTEMS** – Ecam-Epmi, Cergy, FR 2018 – 2022

Top 10

### Experiences

**RAG Research Assistant**, The National Robotarium, Edinburgh, UK Jun 2024 – Aug 2024

- Development of a RAG chatbot to answer questions about ethical considerations related to AI in human-robot interaction.
- Integration of data sources to provide information on safety and risks: Safe Around Robots.

**User-Robot Interaction Analyst**, Heriot-Watt University, Edinburgh, GB Jan 2023 – May 2023

- Published research results on Arxiv, on the impact of visual cues in human-robot interaction.
- Modeled graphs with Neo4j and designed maps with AutoCAD to optimize navigation and real-time directional instructions.
- Analyzed data to validate hypotheses about human-robot interactions and wrote the scientific publication.

**Data Analyst Splunk (Stage)**, Atos, Montpellier, FR Nov 2021 – Mar 2022

- Used Splunk to collect, analyze, and develop real-time Dashboards.
- Leveraged logs from the Occitanie region and Machine Learning techniques for predictive maintenance.
- Identified failure patterns, detected anomalies, and anticipated maintenance needs.

### Skills

**Programming:** Python (Scikit-learn, Pandas, NumPy, Matplotlib), Kotlin, Java, SQL, Neo4j, MATLAB

**Frameworks and Tools:** TensorFlow, Keras, LangChain, Google Cloud Platform, Power BI, Splunk, Streamlit, Unity3D, Trello, Jira, GitHub

**Languages:** French (Native), English (Fluent)

### Professional Development

- **Arxiv Publication:** « [FurNav: Development and Preliminary Study of a Robot Direction Giver](#) »
- Certification : **NVIDIA Certified Associate - Generative AI LLMs** (Expected Mars)

### Awards and Distinctions

- **IEEE RO-MAN 2023 (Busan, South Korea)** - Team presentation based on the ArXiv publication.
- **Hackathon - Care Mashup 2023:** 3rd place in the 5-day hackathon focused on developing AI-based solutions for the autonomy of elderly people.