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Maria Mouratidi

CAREER PROFILE

AI Engineer and NLP Researcher with experience in developing and evaluating LLM-based pipelines. I work with integrating data processing LLM workflows directly into clients' systems, enabling language-based business intelligence with a human-centered approach in mind.

Core competencies include: *end-to-end LLM-based pipelines, data pipeline engineering, backend development, PoCs, technical communication across audiences*

EXPERIENCE

AI Engineer, Next Epoch — *Rotterdam, Netherlands*

Dec 2023 – Present (Part-time)
- Built an end-to-end multi-language system that extracts product requests from customer emails, classifies them into standardized article codes and returns structured order data via CSV (Python, AzureOpenAI, FastAPI, PostgreSQL, Docker, Microsoft Graph API)
- Result: Reduced manual data entry and minimized time spent in resolving product ambiguity (product type, material, shape, dimensions)
- Built an automated email system that sends personalized follow-up emails to training participants between sessions (Python/FastAPI microservices, Microsoft Graph API, Azure OpenAI), and classifies their replies, updating state dynamically (learner state, engagement level, goal progress)
- Result: Enhanced engagement between sessions without replacing the human interaction
- Built a Whatsapp-based conversational agent where employees submit work hours through natural conversation, and the identity, project details and worked hours are validated against a database (Postgres), supporting approval and multi-turn interaction (Whatsapp Business API, Postgres, n8n, AzureOpenAI)

Motion Capture Researcher, HERMES Team, University of Thessaly — *Remote*

Nov 2025 – Present (Part-time)
- Research motion capture methods and create proposal for tailored motion data collection
- Implement Deep Learning Models for gait analysis and motion classification for integration with biomechanical models for the HERMES exoskeleton system

Teaching Assistant, Utrecht University — *Utrecht Netherlands*

Apr 2025 - Jun 2025

- Supported Master AI students with assignments in Machine Learning and explainable AI
- Hosted lab sessions where I explained complex AI concepts and provided feedback
- Assisted in grading for the Human-Centered Machine Learning course

EDUCATION

Utrecht University, Utrecht, Netherlands (2023 - 2025)

MSc Artificial Intelligence. Focus: Natural Language Processing, Human-Centered Machine Learning

Thesis: Comparing Eye-gaze and Transformer Attention Mechanisms in Reading Tasks (Grade: 8.3/10)

Tilburg University, Tilburg, Netherlands (2020 - 2023)

BSc Cognitive Science and Artificial Intelligence. Focus: Computational Linguistics, Human-Computer Interaction, Deep Learning

Thesis: Simulating Twitter Topic Dynamics with Fuzzy Cognitive Maps (Grade: 8/10)

Affiliations/Awards

Postgraduate Scholarship for MSc in Artificial Intelligence, J.S. Public Benefit Foundation, 2023

Publications

Comparing Eye-gaze and Transformer Attention Mechanisms in Reading Tasks, Mouratidi & Poesio, Gaze4NLP, 2025

SKILLS

GenAI & LLMs: *AzureOpenAI, OpenAI, API LangChain, LangGraph, n8n*
Document Processing: MongoDB, MySQL, Postgres, ETL
DevOps: Docker, Azure Container Apps, Terraform
Backend & APIs: Python, FastAPI, Pydantic, asyncio
ML & NLP: PyTorch, TensorFlow, Hugging Face Transformers, scikit-learn
Other: Git, Jira

LANGUAGES

English (C2), **Greek** (native), **Dutch** (A1)