

# Mahmoud Mayaleh

AI & Machine Learning Engineer

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AI Engineer with a Master's in Artificial Intelligence, skilled in deep learning, NLP, and large-scale model training. Background in distributed AI systems and applied ML research.

## EDUCATION

<b>Master's in Artificial Intelligence for Connected Industries,</b> <i>Conservatoire National des Arts et Métiers (CNAM)</i> <a href="#">🔗</a>	Paris, France
<b>Bachelor of Engineering: Computer Engineering,</b> <i>Ostim Technical University</i> <a href="#">🔗</a>	Ankara, Türkiye

## PROFESSIONAL EXPERIENCE

<b>Research Intern, CNAM</b> <a href="#">🔗</a> <ul style="list-style-type: none"><li>Researched RDMA and LLM workload traffic to design and evaluate scheduling strategies, modeling communication topologies, and computing communication overlap using ns-3 and SimAI.</li><li>Designed and executed workloads for GPT models up to 175B parameters on 1024 GPUs, using SimAI to run analytical simulations, optimize NCCL/RDMA communication, and prototype MSCCL custom collectives for scalable performance analysis.</li></ul>	06/2025 – 09/2025 Paris, France
<b>Back End Developer, Ostim Technical University - IT department</b> <a href="#">🔗</a> <ul style="list-style-type: none"><li>Created and integrated 5+ customized Odoo ERP modules and controllers, increasing system efficiency by 20% through streamlined workflows.</li><li>Automated backend processes with Python, cutting manual data entry by 40% and reducing errors.</li><li>Tuned database queries to accelerate ERP load times by 25%, enhancing user experience and responsiveness.</li></ul>	02/2024 – 06/2024 Ankara, Türkiye
<b>Machine Learning Intern, ArkSigner</b> <a href="#">🔗</a> <ul style="list-style-type: none"><li>Constructed an object detection pipeline achieving 90% accuracy, leveraging advanced ML methods for reliability.</li><li>Integrated AI solutions that elevated system performance by 30%, improving automation and processing speed.</li><li>Conducted thorough testing and validation on custom datasets to ensure deployment readiness and robustness.</li></ul>	08/2023 – 10/2023 Ankara, Türkiye
<b>Technical Assistant, Ostim Technical University - IT department</b> <a href="#">🔗</a> <ul style="list-style-type: none"><li>Diagnosed and resolved technical issues, delivering 95% student satisfaction through prompt support.</li><li>Oversaw maintenance of university systems, maintaining 99.9% uptime for over 10,000 users.</li><li>Trained staff effectively on new digital tools, reducing internal support response time by 25% and boosting team efficiency.</li></ul>	07/2022 – 03/2023 Ankara, Türkiye

## PUBLICATIONS

<b>Enhancing Sentiment Classification on Small Datasets</b> <a href="#">🔗</a> <ul style="list-style-type: none"><li>Tested EDA, back-translation, and NLPaug across 3 models (SVM, RF, BERT) on low-resource sentiment datasets.</li><li>Achieved consistent accuracy gains, with contextual augmentation boosting BERT &gt;10%, while EDA/back-translation improved traditional classifiers.</li></ul>	2025
<b>LipLingo: CNN Model for Lip Reading</b> <ul style="list-style-type: none"><li>Developed LipLingo with 3D CNNs + BiLSTMs, rotational validation, and standardized preprocessing.</li><li>Reached 95% character-level and 87% sentence-level accuracy on the GRID dataset, outperforming LipNet baseline.</li></ul>	2025

## TECHNICAL SKILLS

<b>Programming</b> Python, C++, C#	<b>AI/ML Frameworks</b> PyTorch, TensorFlow, scikit-learn
<b>Data Analysis &amp; Visualization</b> NumPy, pandas, Matplotlib, Seaborn	<b>Other Tools</b> Git, Docker, Linux