



# Mahmoud Mayaleh *AI & Machine Learning Engineer*

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AI Engineer with a Master's in Artificial Intelligence and experienced in deep learning, NLP, and deploying machine learning models. Skilled in Python, C++, TensorFlow, and data analysis.

## EDUCATION

**Master's in Artificial Intelligence for Connected Industries,**  
*Conservatoire National des Arts et Métiers (CNAM)* 

Paris, France

**Bachelor of Engineering: Computer Engineering, Ostim Technical University**   
GPA: 3.3 / 4.0

Ankara, Türkiye

## PROFESSIONAL EXPERIENCE

**Research Intern, CNAM** 

06/2024 – present

- Researched RDMA and LLM workload traffic to design efficient computing scheduling strategies in data center environments.
- Modeled and analyzed communication scenarios using *ns-3* and the *SimAI* open-source framework to evaluate performance, scalability, and resource allocation.

Paris, France

**Back End Developer, Ostim Technical University - IT department** 

02/2024 – 06/2024

- Created and integrated 5+ customized Odoo ERP modules and controllers, increasing system efficiency by 20% through streamlined workflows.
- Automated backend processes with Python, cutting manual data entry by 40% and reducing errors.
- Tuned database queries to accelerate ERP load times by 25%, enhancing user experience and responsiveness.

Ankara, Türkiye

Machine Learning Intern, *ArkSigner* [↗](#)

08/2023 – 10/2023

- Constructed an object detection pipeline achieving 90% accuracy, leveraging advanced ML methods for reliability.
- Integrated AI solutions that elevated system performance by 30%, improving automation and processing speed.
- Conducted thorough testing and validation on custom datasets to ensure deployment readiness and robustness.

Ankara, Türkiye

**Technical Assistant, Ostim Technical University - IT department** 

07/2022 – 03/2023

- Diagnosed and resolved technical issues, delivering 95% student satisfaction through prompt support.
- Oversaw maintenance of university systems, maintaining 99.9% uptime for over 10,000 users.
- Trained staff effectively on new digital tools, reducing internal support response time by 25% and boosting team efficiency.

Ankara, Türkiye

## PROJECTS

## LipLingo: CNN Model for Lips Reading

- Designed and trained a CNN-BiLSTM model, increasing lip-reading accuracy by 18%
- Preprocessed data and optimized model training in TensorFlow, reducing training time by 20%.

## ChatBot using Neural Networks

- Implemented a feedforward neural network chatbot with 85% classification accuracy.
- Enabled real-time responses by classifying inputs into 10+ intent categories

## Sales Forecast

- Developed a linear regression model for sales forecasting using Python on 5,000+ records with Python, NumPy, pandas, and Matplotlib.
- Assessed model accuracy using MSE, MAE, and  $R^2$ , improving forecast accuracy by 15%

## PROGRAMMING LANGUAGES

- Python

- C++

- C#

## CERTIFICATES

- [PyTorch for Deep Learning with Python Bootcamp](#) 
- [Data Manipulation with Pandas](#) 
- [Data Visualization with Seaborn](#) 