

# VASILEIOS MOUCHAKIS

Email: vmouchakis@gmail.com   Github   LinkedIn   Website

Machine Learning Engineer specializing in NLU and scalable ML models. Proficient in key AI technologies and production systems. Focused on solving problems through practical technical solutions across domains.

## RELEVANT EXPERIENCE

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### DIALECTICA

Nov 2023 - Present

#### Data Scientist

- Leverage large language models to perform various Natural Language Understanding (NLU) tasks, enhancing the accuracy and efficiency of language processing applications.
- Employ advanced models for speech-to-text conversion, ensuring high-quality and precise transcriptions.
- Implement diarization techniques to accurately distinguish and segment speakers in audio recordings, improving the clarity and usability of transcribed data.
- LLM finetuning for summarization tasks.

### MAMA AI

Jul 2022 – Nov 2023

#### Machine Learning Engineer

- Developed and trained machine learning models for Natural Language Understanding (NLU) tasks.
- Built custom libraries and deployed APIs for NLU tasks, optimizing efficiency and performance.
- Co-organized monthly research seminars, facilitating paper reviews and brainstorming sessions to foster a collaborative research environment.

## EDUCATION

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### NCSR “DEMOKRITOS”

MSc in Data Science, Grade: 8.75/10

Thesis: “Deep Metric Learning for Music Information Retrieval”, Grade: 9/10

- Applied deep learning techniques to audio feature extraction and similarity learning, developing optimized models for efficient music retrieval.

### UNIVERSITY OF PELOPONNESE

BSc in Informatics & Telecommunications, Grade: 6.7/10

Thesis: “Users’ Location-Tracking System for Indoor Environments”, Grade: 10/10

## ADDITIONAL EXPERIENCE

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### ABCIT

Sep 2020 – Sep 2021

#### Software Analyst

- Installed and maintained CRM-ERP software, ensuring seamless operations and data integrity.
- Created custom personal evaluation software, tailoring solutions to meet specific business needs.

- Provided on-site customer technical support, resolving issues promptly and enhancing client satisfaction.

## **JUNGHEINRICH HELLAS LTD**

**Oct 2020 – Sep 2021**

### **External Partner, IT Coordinator**

- Offered technical support to resolve IT-related issues, ensuring minimal downtime and disruptions.
- Coordinated communication between the German headquarters and Greek offices for IT solutions, facilitating efficient information exchange and project management.

## **OPTIMUM ORTHOPEDICS**

**Jul 2019 – Sep 2019**

### **Intern, Assistant IT Manager**

- Provided technical support to streamline IT operations and address complex technical challenges.
- Assisted in managing IT projects, contributing to the successful implementation of technology solutions.

## **ADDITIONAL INFORMATION**

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- **Achievements:** World Robot Olympiad (WRO), 5<sup>th</sup> place
- **Projects:**
  - Llama 3.1 finetuning for summarization tasks
  - [Brainaic](#), a bot that answer questions based on your documents
  - [Summarease](#), a tool to summarize your documents
  - Fraud detection on Ethereum transactions
  - Evaluate the performance of Machine Learning algorithms in the domain of financial crisis mitigation
  - Pattern identification on flight delay data
  - Quantitative Analysis of Car-Company Stocks
  - Custom CRUD Applications
- **Programming languages – skills:** Machine Learning (Classification, Regression, Clustering, Ensembles, Dimensionality Reduction, Data Cleaning, Transformers, Deep Metric Learning-triplet loss, contrastive learning), Python, C, Java, JavaScript, Neo4j, PostgreSQL, PHP, Airflow, Data Structures, Linux, Currently learning: AWS and OpenCV
- **Courses:** Investment Analysis & Portfolio Management (Udemy), Python for Financial Analysis and Algorithmic Trading (Udemy), Prediction Models with Sports Data (Coursera), Ethereum Blockchain Developer with Solidity (Udemy), Bitcoin and Cryptocurrency Technologies by Princeton University (Coursera), etc.
- **Languages:** native Greek, proficient English (ECPE), upper-intermediate German (B2)