



# Fotini Droumalia

## PERSONAL INFORMATION

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Date of Birth: July 13th, 1999

Contact Address: Euporou, 8A, Tris Vagies, Heraklion 71410, Crete, Greece

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Nationality: Greek

## WORK EXPERIENCE

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**SafePolyMed** – Feb 2023-Present

*Objective: Improve Safety in Polymedication by Managing Drug-Drug-Gene Interactions under HORIZON-HLTH-2021-CARE-05-01*

- **Machine Learning Engineer** – Foundation for Research and Technology - Hellas (FORTH) Dec 2025-Present
  - Developing and optimizing multimodal deep learning predictive models for patient risk assessment, with a focus on severely imbalanced datasets
  - Integrating models into production services to support real-world use
- **Research Assistant** – Foundation for Research and Technology - Hellas (FORTH) Oct 2023-Nov 2025
  - Built and optimized multimodal deep learning predictive models for patient risk assessment
  - Improved data preprocessing and integrated models into a risk assessment API for real-life evaluation
- **Junior Machine Learning Engineer** – Foundation for Research and Technology - Hellas (FORTH) Feb 2023-Sep 2023
  - Prepared and preprocessed clinical datasets for training predictive models
  - Researched and experimented with machine learning and deep learning methods for disease risk assessment
  - Contributed to the development of risk prediction pipeline to support healthcare decision-making

## EDUCATION

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- MS** Hellenic Mediterranean University, Informatics Engineering 2023-2025  
Heraklion, Crete
- Thesis:** Developing an LSTM-Based Framework for Assessing the Risk of Adverse Drug Reactions in Polypharmacy Patients Using Multimodal Data
- BS** Technological Educational Institute of Crete, Informatics Engineering 2017-2022  
Heraklion, Crete
- Thesis:** Gene expression and gene regulatory network analysis with statistical methods and machine learning algorithms

## TEACHING EXPERIENCE

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### Teaching Assistant – Undergraduate Courses – Hellenic Mediterranean University

- **Knowledge Systems** Oct 2024-Feb 2025
- **Artificial Intelligence** Feb 2024-Jun 2024
- **Software Technology** Oct 2023-Feb 2024

## LANGUAGES

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**Greek:** Native Language

**English:** Upper Intermediate (Michigan ECCE B2)

**German:** Upper Intermediate (Goethe-Zertifikat B2)