Panos Gemos
PhD Candidate | AI Researcher

CONTACT

- Athens, Greece
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- StackOverflow

SKILLS

Python	★★★★★
Data Analysis	★★★★★
Deep Learning	★★★★☆
SQL	★★★★☆
LaTeX	★★★☆☆

Toolkit: Git, Docker, Linux, Bash

HONORS & AWARDS

- **IKY Chrysovergis Doctoral Scholarship** Competitive national funding supporting PhD studies (2024).
- **Valedictorian & Georgios Karampatzos Award** Highest GPA in University (2017).
- **ELLAK Open Source Award** For cultural software contribution (2015).
- **Head Organizer, FOSSCOMM 2017** Major open-source conference (2017).
- **President, Student Association** Dept. Informatics & Telematics, Harokopio University (2016-17).

LANGUAGES

Greek (Native)
English (ECPE - C2)

INTERESTS

Open Source, Digital Privacy, Traveling, Tennis, Cycling, Cinema, Theater

ABOUT ME

Helping people and making a difference is what drives me. I have always been captivated by the potential of **Computer Science** and **Artificial Intelligence** to solve complex societal problems. I believe responsible technological progress relies on **open-source** collaboration and **privacy-preserving** architectures, and I am driven to build systems that uphold these values.

EXPERIENCE

Visiting Instructor & Participant (Crypto Specialist) — Nov 2024 – Jun 2025
BCA College (Executive Education) — *Athens, Greece*
- Designed and delivered modules on **AI Agents**, **Financial Time Series Forecasting**, and **Prompt Engineering** tailored for the **Web3 & Crypto** ecosystem.
- Concurrently mastered the **Blockchain, Crypto & Web3** curriculum, gaining deep domain expertise.
- Web3 · Blockchain · Forecasting · GenAI · Teaching

AI Researcher (Contractor) — May 2024 – Aug 2024
KLEPTOTRACE Project (EU Co-funded) — *Athens, Greece*
- Co-authored paper on **Entity Extraction via LLMs** for financial crime detection [arXiv].
- Built **Knowledge Graph** construction pipelines from unstructured text in a **fully local** environment.
- Deployed **open-weight LLMs** via Ollama for privacy-preserving inference without external APIs.
- LLMs · Knowledge Graphs · Ollama · LangChain · NLP · Python

AI Computer Vision Researcher (Military Service) — Mar 2023 – Nov 2023
Hellenic Army — *Greece*
- Selected for the **Research, Technological Development and Innovation Center of the Hellenic Military** during mandatory service; contributed to 4-month intensive Computer Vision project.
- Experimented with, trained, and deployed models on **resource-constrained hardware** (On-Device AI).
- Fulfilled mandatory military service obligations.
- Computer Vision · On-Device AI

Sr. Analytics Solutions Analyst — Jun 2021 – May 2022
The Coca-Cola Company — *Athens, Greece*
- **Promoted** to Senior role after just 3 months as Analytics Solutions Analyst (Jun 2021 – Aug 2021).
- Engineered robust **Time Series Forecasting** pipelines for complex commercial datasets.
- Statsmodels · Scikit-learn · Forecasting · Azure · Databricks · PowerBI · Pandas · Python

Data Analyst — Jan 2020 – May 2021
The Coca-Cola Company (via Comdata) — *Athens, Greece*
- Co-developed a **Recommendation Engine** for HR Analytics.
- Architected data collection pipelines (APIs) to support real-time reporting dashboards.
- PySpark · Azure · Databricks · PowerBI · NLP · Pandas · Scikit-learn · Python · SQL

NLP Engineer (Erasmus+) — Jan 2018 – Jul 2018
Middlesex University London — *London, UK*
- Developed a semantic search engine matching jobs to courses and vice versa.
- NLTK · SpaCy · Django · Full-Stack · Python · JavaScript

ML Researcher (Internship) — Jul 2016 – Sep 2016
National Observatory of Athens — *Athens, Greece*
- Created a magnetometer calibration app using time series analysis in Java and Octave/Matlab.

EDUCATION

PhD Candidate — Jan 2024 – Present
Harokopio University of Athens
Topic: Financial Time Series Forecasting using Deep Learning Techniques
- Investigating the efficacy of **Transformers vs. LSTMs** for long-horizon financial time series forecasting.
- Pioneering a **text-to-graph methodology** to enrich quantitative models with insights from financial reports.

MSc in Data Science & IT – Big Data & AI — Oct 2018 – Present
National and Kapodistrian University of Athens
Thesis: "LLMGrapher: Transforming Texts to Knowledge Graphs with the Power of Large Language Models"
- Developed local, privacy-first pipeline converting text to graphs using **Ollama** and **Llama 3.1**.
- Thesis Presented: Oct 2025 (Grade Pending).
Coursework Projects: Built Deep Learning & classical ML solutions using **TensorFlow**, **Keras**, **Scikit-learn** and **NumPy**.

MSc in Digital Innovation & Startup Entrepreneurship — Oct 2020 – Oct 2022
National Technical University of Athens & University of the Aegean
Thesis: "Artificial Intelligence as a Business Incubator"
- Comparative analysis of AI business models tailored to specific organizational goals.
GPA: 9.04/10

BSc in Informatics and Telematics — Sep 2013 – Nov 2017
Harokopio University of Athens
Thesis: "Image Classification using Deep Learning Techniques"
GPA: 9.4/10 **(Valedictorian)**