

Kopalidis Thomas

Contact Details

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Github:

<https://thomaskopalidis.github.io/>

Skills

- Teamwork
- Adaptability
- Problem Solving
- Research
- Decision-Making
- Reliability
- Analysis
- Presentation Skills
- Public Speaking

Languages

Greek – Mother Tongue

English – C2 ECPE

French – B1 CCL

German – A1

Technical skills

- Python, Pytorch
- R
- C
- Mathematica
- Matlab
- Microsoft Office
- SPSS
- Origin
- Git, Flask
- MYSQL, SQL
- Power BI, Tableau
- Pyspark
- SAS
- Fidelio Opera

Military Service

Fulfilled (Oct 2019 - June 2020)

Interests

Chess, Tennis, Walking, Gym,
Travelling, Reading History Books

About Me

I hold a BSc in Physics and an MSc in Health Statistics and Data Analytics. I am a kind, patient, persistent, and altruistic person. I blend analytical thinking with data to turn complexity into clarity. I solve problems and transform data into meaningful visual representations.

Working Experience

Elysium, Rhodes

Operational Data Analytics and Financial Reporting



May 2025 – Oct 2025 | Data Analyst (Night Operations)

- Managed daily financial reconciliation and guest billing using Fidelio Opera PMS and complementary financial software.
- Developed datasets and dashboards to analyze operational metrics (arrivals, departures, occupancy and customer nationality distribution), improving reporting accuracy and decision-making contributing to improved understanding of customer trends and resource planning.

CERTH ITI, Thessaloniki

Medical Project – Health



Sep 2024 – Feb 2025 | Research Assistant & Data Scientist

- Worked with Large Language Models (LLMs) to enhance AI-driven solutions.
- Enhancing the MAGGIC Risk Calculator for personalized mortality risk predictions in chronic heart failure patients.
- Developing algorithm that:
 - Analyzes patient data.
 - Assigns a MAGGIC score based on predefined thresholds.
 - Provides tailored recommendations (for patients and doctors) based on medical guidelines and the bibliography.
- Improving risk stratification and clinical decision-making through data-driven insights.

Smart Mobility & Intelligent Transportation Systems Project



Sep 2024 – Feb 2025 | Research Assistant & Data Scientist

- Built machine learning models to detect anomalies and optimize system performance using limited data and computing resources.

Transportation Prediction Project



Jan 2024 – Feb 2025 | Data Scientist & Backend Engineering

TES_08:

- Developed and integrated algorithms for various transportation modes (bus, car, walking, micromobility, shared car, multimodal trips).
- Implemented algorithms into a web application using Flask, optimizing database interactions with SQL for efficient data retrieval.

TES_10:

- Developed algorithms to validate user trips and identify transport modes using GPS data.

Real Estate Prediction Project



May 2023 – Dec 2023 | Research Assistant & Data Scientist

- Developed a model (ML) to predict housing prices using large-scale real estate data.
- Performed data cleaning, exploratory analysis, and trend detection to identify price drivers and regional patterns.
- Used SQL for structured data storage and PySpark to manage high-volume datasets.
- Conducted research in graphs and transformers.
- Responsible for Deliverable 3.1.

Projects

- 1. Developed **machine learning** models using **Python** and **R** for **health data** such as **Alzheimer Dataset** and **Heart Failure Prediction Dataset**.
- 2. **MAGGIC Risk Calculator Enhancement**: Enhanced the MAGGIC Risk Calculator, a machine learning algorithm that provides personalized mortality risk predictions for chronic heart failure patients, improving risk stratification and treatment strategies.

Verified Certifications

- Accelerators and Detectors in Nuclear and Particle Physics
- Cell Biology: Mitochondria HarvardX
- Python
- The use of LASER in Medicine, Clinical Applications and Safe Operation
- Designing Lipid Nanoparticles Systems for COVID-19 Vaccines
- ECESCON12
- European Resuscitation Council
- Google Data Analytics Professional Certificate
- Microsoft Global Cert
- Machine Learning Certificates from London and Duke University
- Advanced Programming with Python.
- Honorary Distinction in School Mathematical Competition
- Information Security Fundamentals (CERTH)

Environmental Monitoring Project



May 2023 – Sep 2023 | Research Assistant & Data Scientist

Developed the machine learning models that supported data integration from UAVs with multiple sensors for environmental assessments

Medical Project – Neurodegenerative Health



May 2022 – Apr 2023 | Research Assistant & Data Scientist




- Actively engaged in the **TeNDER** project, focusing on deep learning methods for signal processing in patients with Parkinson’s or Alzheimer’s disease.
- Performed data cleaning, exploratory analysis, and trend detection on patient sensor and behavioral data to uncover early signs of neurodegenerative disease progression.
- Integrated a model for Facial expression recognition (FER).
- Conducted Survey and research about FER.
- Responsible for Deliverables D3.3 and D4.2.
- Analyzed sensor data to detect patterns in disease progression for early symptom detection.
- Examined population data to identify treatment response factors enabling personalized, optimized patient care.

Teaching Experience

Sep 2018 – Now | Tutor

Teaching Physics, Mathematics, Biology, Chemistry and Informatics to adolescents of Secondary School, High School, and Anatolia College.

Education

- **MSc in Artificial Intelligence and Deep Learning**, Electrical & Electronics Engineering of University of West Attica (UNIWA), Athens, Feb 2025 – now. 
- **Special Education**, Education Center for Lifelong Learning, University of Patras, Oct. 2022 - July 2023 
- **MSc in Health Statistics and Data Analytics**, Medical School of Aristotle University of Thessaloniki, Feb 2022 - Jan 2024, Grade: “**Excellent**”. 
- **BSc in Physics**, Science School of Aristotle University Thessaloniki, Sep 2014 – July 2020, Grade: “**Very good**”.
- **BSc Internship in Medical Physics and Data Analysis** at AHEPA University Hospital of Thessaloniki, June 2019 - Sep 2019.

Project in EMBS

Dec 2018 - June 2019

Organizer in **EMBS**, University Team, AUTH, Thessaloniki.

Publications

- 1. Kopalidis, T., Solachidis, V., Vretos, N., & Daras, P. (2024). Advances in facial expression recognition: a survey of methods, benchmarks, models, and datasets. *Information*, 15(3), 135. <https://doi.org/10.3390/info15030135>
- 2. Kopalidis, T. (2023). Effect of short-term exposure to ambient temperature on pediatric hospital admissions in Athens. (MSc thesis Aristotle University of Thessaloniki) <https://doi.org/10.26262/heal.auth.ir.353982>