Kopalidis Thomas

Contact Details

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Github:
https://github.com/thomaskopalidis

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 Resorts & Spa, Rhodes

Hotel Operations and Financial Management
May 2025 – Sep 2025 | Night Auditor – Data Analyst

- 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.

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.

Education

- **MSc** in **Artificial Intelligence and Deep Learning**, Electrical & Electronics Engineering of University of West Attica (UNIWA), Athens, Feb 2025 – now.
- **MSc** in **Health Statistics and Data Analytics**, **Medical School** of Aristotle University of Thessaloniki, Feb 2022 - Jan 2024, Grade: "**Excellent**".
- **MSc Thesis** on the "**Effect of short-term exposure to ambient temperature on pediatric hospital admissions in Athens**", Sep 2023 – Jan 2024.
- **BSc** in **Physics**, **Science School** of Aristotle University Thessaloniki, Sep 2014 – July 2020, Grade: "**Very good**".

Publications

Kopalidis, T.; Solachidis, V.; Vretos, N.; Daras, P. Advances in Facial Expression Recognition: A Survey of Methods, Benchmarks, Models, and Datasets. Information 2024, 15, 135. https://doi.org/10.3390/info15030135.

June 2019 - Sep 2020: Internship and Project – AHEPA University Hospital of Thessaloniki

My BSc **Internship** was in **Medical Physics** and **Data Analysis** at **AHEPA** University Hospital of Thessaloniki. I did my research in **spect imaging** "Applications of spect γ-Camera in the study of the effect of the acquisition radius on the semiquantitative measurements during brain striatum phantom spect imaging".

Dec 2018 - June 2019: Project in EMBS

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

Sep 2018 – Now: Teaching Experience

Teaching Physics, Maths, Biology,Chemistry and Informatics to Ad Adolescents of Secondary School, High School, and Anatolia College.