



# Dimitris Dimopoulos

**Date of birth:** 10/05/1983 | **Nationality:** Greek | **Phone number:** (+30) 6936764999 (Mobile) |

**Email address:** [dimopoulosvtec@yahoo.gr](mailto:dimopoulosvtec@yahoo.gr) | **Website:** <http://dimitris.sxoli-odigwn.gr/> | **LinkedIn:** <https://www.linkedin.com/in/dimitris-dimopoulos/> |

**Address:** Vosporou 9 - Kamatero, 13451, Athens, Greece (Home)

## ABOUT ME

As a passionate researcher I strive to develop innovative solutions aimed at improving healthcare. Leveraging my strong academic foundation in information and communication systems, my ongoing PhD studies and tools such as Python and SQL, I create and analyze models that I have presented at conferences and published in renowned journals. My contribution, to the advancement of artificial intelligence for the betterment of society, in academia will remain ongoing.

## WORK EXPERIENCE

20/10/2018 – CURRENT Kifisia, Greece

### HUMAN RESOURCES INFORMATION SYSTEM ANALYST KIFISIA MUNICIPALITY

- **Data analysis and tool development:** Design and implement advanced data analysis tools using Python and Microsoft Excel to streamline data collection, processing and interpretation, ensuring actionable insights for key stakeholders.
- **Insights & Reporting:** Conduct in-depth data analyses, generating actionable insights for decision-making processes, including contributions to the Hellenic Statistical Authority.
- **Data management & digital transformation:** Successfully developed and maintained integrated databases on the Ministry of Interior's digital platform, ensuring accuracy and reliability.
- **Data Visualization:** Created well-structured, presentation-ready visuals and reports to effectively communicate complex analysis to senior leadership and other stakeholders.
- **Organizational transparency:** Design and implementation of a digital organizational chart to enhance transparency and support collaborative flows.
- **Workflow optimization:** Establish and optimize HR workflows, driving efficiency and collaboration across departments.

**Address** Emmanouil Mpenaki 3, Kifisia, Greece | **Email** [humanres@kifissia.gr](mailto:humanres@kifissia.gr) | **Website** [www.kifissia.gr](http://www.kifissia.gr)

31/01/2013 – 30/07/2018 Athens, Greece

### OFFICE SUPERVISOR DRIVING SCHOOL ANDREAS DIMOPOULOS

- **Development of customized software:** To streamline customer management and optimize operational flows, achieving increased efficiency and customer satisfaction.
- **Website development and digital marketing:** Designed and launched the company website, executing a comprehensive print and digital marketing campaign that resulted in a 35% uplift in company interest and subsequent customer acquisition.
- **Technical support and maintenance:** Ensured smooth business operations by managing hardware and software systems, providing technical support and implementing reliable IT solutions.

**Address** Leoforos Kamaterou 14, 13451, Athens, Greece | **Email** [info@sxoli-odigwn.gr](mailto:info@sxoli-odigwn.gr) | **Website** [www.sxoli-odigwn.gr](http://www.sxoli-odigwn.gr)

31/03/2009 – 30/09/2009 Athens, Greece

### FINANCIAL ACCOUNTANT NATIONAL BANK OF GREECE

- **Process optimization:** Introducing solutions to streamline accounting processes, reducing work time while ensuring compliance with organizational standards.
- **Digital transformation:** implementing digital tools (Excel - SAP) to automate routine accounting tasks, significantly improving productivity and efficiency.

**Address** Aiolou 86, Athens, Greece | **Website** [www.nbg.gr](http://www.nbg.gr)

- **Excellence in customer service:** Managed a high call volume, resolving customer inquiries and handling crises effectively.
- **Collaboration and communication:** Maintained constant communication with both customers and drivers to optimize service delivery.

## ● EDUCATION AND TRAINING

---

23/02/2023 – CURRENT Samos, Greece

**PHD CANDIDATE** University of the Aegean

---

- **Focus:** Development of machine learning and deep learning models for predictive analytics in healthcare, leveraging complex datasets for accurate predictions.
- **Enhancement Methods:** Conducted hyperparameter tuning and model optimization to enhance performance.
- **Key Skills & Tools:** Python (Pandas, NumPy, Scikit-learn, PyTorch, Keras), SQL, data preprocessing, feature engineering, SHAP for model explain-ability, and Git for version control.

**Website** <https://www.icsd.aegean.gr/> | **Field of study** Information and Communication Technologies | **Level in EQF** EQF level 8 |

**Thesis** Multivariate analysis of clinical - medical data

30/09/2020 – 22/06/2022

**MSC INFORMATION AND COMMUNICATION SYSTEMS** University of the Aegean

---

- **Focus:** Developed and evaluated machine learning models (e.g., Random Forest, XGBoost, Neural Networks) to predict mortality using clinical and demographic data.
- **Specialization:** Applying machine learning techniques for healthcare analytics.
- **Key Skills & Tools:** Machine learning platforms (Weka, RapidMiner), Python (Matplotlib, Seaborn), Git for code management, and SQL for data handling.

**Website** <https://www.icsd.aegean.gr/> | **Field of study** Information and Communication Technologies | **Final grade** 8.43 |

**Level in EQF** EQF level 7 | **Type of credits** ECTS | **Number of credits** 90 |

**Thesis** Mortality Prediction in ICU Patients Suffering from Stroke

30/09/2003 – 30/09/2009 Chalkida, Greece

**BACHELOR'S DEGREE, ACCOUNTING AND FINANCE** Technological Educational Institute of Chalkida

---

- **Focus:** Data management and financial analysis.

**Address** Psachna Evoias, 34400, Chalkida, Greece | **Website** <http://acc.teiste.gr/> |

**Field of study** Business, administration and law | **Final grade** 6.1 | **Level in EQF** EQF level 6 |

**Thesis** Accountancy of damping (I.A.M. No 16) analysis and comparison with Greek Legislation.

30/09/2003 – 30/09/2005 Agioi Anargiroi - Athens, Greece

**COMPUTER NETWORK TECHNICAL DEGREE** Institute of Vocational Training

---

- **Key Skills & Tools:** Developed skills in network infrastructure, data systems, and technical troubleshooting.

**Address** 13561, Agioi Anargiroi - Athens, Greece | **Field of study** Information and Communication Technologies |

**Level in EQF** EQF level 4

## ● PUBLICATIONS

---

2025

**Predicting ICU Length of Stay for Stroke Patients: Clinically based dataset with external validation**

---

(Under Review) The machine learning model we present was developed in collaboration with medical staff with the aim of acceptance, use and interpretability in real-life conditions in intensive care units.

Journal: Elsevier - Expert Systems with Applications "Netherland"

2024

## **Length of Stay & Mortality Prediction for Patients Suffering from Stroke in ICU: A Multimodal Approach**

---

This study aims to develop and validate machine learning models to predict both length of stay and mortality in critically-ill stroke patients using the clinical-laboratory and demographic data available during the first 48 hours from admission.

Journal: ACM - Association for Computing Machinery "New York"

2024

## **Machine learning-based predictive models for patients with venous thromboembolism: A Systematic Review**

---

This systematic review explores if machine learning (ML) can enhance Clinical Patient Management System (CPMs) by analyzing extensive patient data derived from electronic health records (EHRs). We aimed to explore ML-CPMs applications in VTE for risk stratification, outcome prediction, diagnosis, and treatment.

Journal: Thrombosis and Haemostasis "German"

2022

## **Mortality Prediction in ICU Patients Suffering from Stroke**

---

Clinical decision support systems based on machine learning algorithms are taking advantage of the vast amount of information available in the ICUs and are becoming popular in the medical predictive analysis. Our research aims to investigate the feasibility of interpretable machine learning models for predicting mortality in critically ill stroke patients.

Journal: ACM - Association for Computing Machinery "New York"

## ● **CONFERENCES AND SEMINARS**

---

11/09/2024 – 13/09/2024 University of Piraeus - Greece Athens

### **13th conference on Artificial Intelligence (SETN2024)**

---

Following my research on prediction models using machine learning, I presented the results of the paper "Length of Stay & Mortality Prediction for Patients Suffering from Stroke in ICU: A Multimodal Approach" which include a new improved machine learning model.

Link <https://setn2024.cs.unipi.gr/>

01/07/2024 – 03/07/2024 NCSR "Demokritos" Congress Center

### **AI Summer School**

---

This conference aims to review the foundations of AI and highlight recent advances (foundational models, Generative AI, LLMs).

Link <https://hellenic-ias.org/aicourse2024/>

07/09/2022 – 09/09/2022 Corfu Greece

### **12th conference on Artificial Intelligence (SETN2022)**

---

I was presenting my research "Mortality Prediction in ICU Patients Suffering from Stroke" at the SENT 2022 conference, one of the most important forums for Greek and international scientists to submit original and high-quality research on emerging topics in Artificial Intelligence.

Link <https://hilab.di.ionio.gr/setn2022/>

## ● **LANGUAGE SKILLS**

---

Mother tongue(s): **GREEK**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● DIGITAL SKILLS

---

### Programming Languages

Python (Pandas, NumPy, Scikit-Learn, PyTorch, Keras) | SQL

### Data Science & Analytics

Machine Learning (classification, regression, hyperparameter tuning) | Deep Learning (Neural Networks) | Data Preprocessing | Features Engineering | SHAP for explainability

### Data Visualization

Python visualization libraries (Matplotlib & Seaborn)

### Version Control

Version Control System (Git)

### Tools & Platforms

Github | Jupyter | Visual Studio Code | phpMyAdmin | XAMPP

### Generative AI

Chatgpt and Other Generative AI Tools for Data Exploration, Prototyping, and Innovation | Tools for Data Science

### Operating Systems

Debian Linux | Microsoft Windows

### Project Management

Agile Methodology

## ● RECOMMENDATIONS

---

References Available Upon Request