Contact

6949403265 (Mobile)
costasmexis@gmail.com

www.linkedin.com/in/konstantinos-mexis (LinkedIn)

Top Skills

Machine Learning
Python (Programming Language)
Predictive Modeling

Languages

Greek (Native or Bilingual)
French (Limited Working)
English (Full Professional)

Certifications

Electrical and Computer Engineer
Diplôme d'études en langue française (DELF B2)
Deep Neural Networks with PyTorch
Certificate of Proficiency in English (C2)
Applied Social Network Analysis in Python

Publications

On the systematic development of large-scale kinetics using stability criteria and high-throughput analysis of curated dynamics from genome-scale models

Leveraging Semantics and Machine Learning to Automate Circular Economy Operations for the Scrap Metals Industry

Extracting and Ranking Metabolic Pathways from Large Metabolic Networks using Graph Theory and Metabolic Flux Analysis

Konstantinos Mexis

ML/AI | Scientific Machine Learning | Digital Twins | Research
Athens, Attiki, Greece

Summary

Data Scientist and Machine Learning Engineer with extensive experience in Industrial applications, currently pursuing a PhD in Machine Learning for Biotechnology. My expertise spans from traditional engineering approaches to cutting-edge AI solutions, specializing in dynamic systems modeling, hybrid modeling, and Digital Twin development.

Drawing from my engineering foundation as a graduate of the National Technical University of Athens (MEng in Electrical and Computer Engineering), I bridge the gap between theoretical understanding and practical implementation. I excel in translating complex technical concepts into actionable insights and enjoy fostering collaboration within cross-functional teams.

Key areas of expertise:
- Machine Learning & Data Science
- Digital Twin Development
- Dynamic Systems Modeling
- Hybrid Modeling
- Scientific Research

I'm passionate about leveraging data-driven solutions to solve complex industrial challenges and advance biotechnology applications through innovative ML approaches.

Experience

National Technical University of Athens
3 years 3 months

Scientific Researcher
January 2023 - Present (3 years)
Athens, Attiki, Greece

Project: DEBONAIR (H.F.R.I., Project Number: 3817) - Developed a model-theoretical framework to accelerate the Design-Build-Test-Learn cycle in industrial biotechnology

Scientific Researcher
March 2023 - Present (2 years 10 months)
Athens, Attiki, Greece

EU project: BIOINDUSTRY 4.0 (HORIZON-INFRA-2022-TECH-01, Grant ID: 101094287) – Contributed to the development of digital twins for smart biomanufacturing

Phd Candidate - Researcher
October 2022 - Present (3 years 3 months)
Athens, Attiki, Greece

Thesis: “AI-assisted Process and Product Intelligence”

Symbiolabs Circular Intelligence
Machine Learning Engineer
March 2021 - Present (4 years 10 months)
Athens, Attiki, Greece

• Collaborated on multiple projects as a freelance ML Engineer
• Implementation of ML pipelines for energy and water consumption estimation (TITAN Cement plants, EYDAP water utilities)
• Trained and deployed ML models on Saturn Cloud
• Delivered technical reports and presented results to stakeholders

Athena Research Center
Scientific Researcher
July 2024 - December 2024 (6 months)
Athens, Attiki, Greece

EU project: AI-DAPT (Horizon Europe, HORIZON-CL4-2023-HUMAN-01-01, Grant ID: 101135826) – Contributed to XAI-driven operations, hybrid modeling and GenAI for synthetic data generation

Athena Research Center
Scientific Researcher
March 2023 - June 2023 (4 months)
Athens, Attiki, Greece

EU project: BIOINDUSTRY 4.0 (HORIZON-INFRA-2022-TECH-01, Grant ID: 101094287) – Contributed to the development of digital twins for smart biomanufacturing

Athena Research Center
Data Scientist
July 2022 - October 2022 (4 months)
Athens, Attiki, Greece

Internal Project:

Greek Army
Software Engineer/ Research & Informatics
July 2021 - April 2022 (10 months)
Évros, Eastern Macedonia and Thrace, Greece

Division of Research and Informatics

Education

National Technical University of Athens
Master of Engineering - MEng, Electrical and Computer Engineering · (2014 - 2021)

Lycée Leonin de Patisia Degree
High School Diploma