George Plessias, Environmental Engineer

Athens, Greece, (+30)6955197405, plessiasgeorge@gmail.com

LINKS

www.linkedin.com/in/george-plessias

PROFILE

Environmental Engineer with working experience in smart grids and smart buildings. Experienced in developing Artificial Intelligence & machine learning models.Developed AI & ML models for smart grids and buildings, resulting in efficient energy resource usage by over 90%.Utilized detailed data-driven analysis to create comprehensive smart grid and building plans, achieving a 15% decrease in energy costs. Strong communication skills, passionate and results oriented.

EMPLOYMENT HISTORY

Feb 2022 — Feb 2023

System Analyst, EMTech Space

Athens

- Optimized use of Machine Learning Models to streamline forecasting & smart grids load allocation, resulting in cost savings of 15%.
- Advised on design of smart systems for buildings, increasing efficiency by 20% and customer comfort.
- Designed distributed micro-grid systems for residential applications with a 97% accuracy rate, reducing operational costs by 15%.

Jan 2021 — Oct 2021

Communications Departement, Greek Military

Athens

- Mandatory Military service, completed.

Mar 2019 — Jun 2020

Researcher, National Technical University of Athens

Athens

- Developed neural networks algorithm to detect mathematical functions in Santorini frescoes, resulting in unseen insights with 95% accuracy.
- Implemented MATLAB scripts for data collection & analysis, leading to recognition of over 15 previously unknown patterns within the frescoes.
- Conducted research collaboration with 2 professors (Mr. Papaodysseus and Mr. Koukoutsis) of the Electrical Engineering department, on stencils in ancient frescoes, demonstrating the techniques uncovered.

EDUCATION

Sep 2014

Department of Chemical and Environmental Engineering, Technical University of Crete

Chania

Final Thesis: ¨Estimation of rainfall on the island of Crete using neural networks¨

- Processed massive, complex data sets and incorporated them into MATLAB compatible Neural Networks to create accurate estimations of rain patterns in Crete.
- Curated detailed baseline results by analyzing 10 years of test samples and isolating trends for high precision estimation, increasing accuracy by 19%.
- Developed relationship between clouds & rainfall using sophisticated NN models, resulting in improved environment protection initiatives with a 95% success rate.
- Generated dynamic visualizations of GIS models to forecast yearly precipitation with 95% accuracy.

Sep 2012 — Jun 2014

High school, 4th Lyceum of Chalandri

Athens

LANGUAGES

German	B2	French	B1
English	C1	Greek	Native speaker

SKILLS

Communication Skills	Experienced	Machine Learning Algorithms	Experienced
Ability to Work in a Team	Experienced	Artificial Intelligence	Experienced
Microsoft Office	Experienced	Data Analysis	Experienced
Python	Experienced	Engineering	Expert

COURSES

Smarterials, Technical University of Crete

Zero-Energy Design: an approach to make your building sustainable, Edx/ Delft University

Python Basics for Data Science, Edx/ IBM

Deep Learning Fundamentals with Keras, Edx/ IBM

Computer Vision and Image Processing Fundamentals, Edx/ IBM

VOLUNTEERING

Blood Donor