

GEORGIOS LAZARIDIS

Computer Science Student

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CONTACT

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EDUCATION

Aristotle University of Thessaloniki | 2022 – Present
Bachelor in Computer Science

PROJECTS

Regularized Neural Network for Regional Air-Quality Forecasting
Developed a TensorFlow model to forecast NO₂, CO, SO₂, O₃, PM2.5, and PM10 over Greece using NASA GIOVANNI data. Used z-scoring, gradient clipping, and out-of-year validation for stable, robust training. Applied learning-rate scheduling and early stopping to prevent overfitting. Integrated results into an interactive 3D globe at NASA Space Apps Thessaloniki (2-day hackathon, team of 6).

Linear Regression with Gradient Descent
Implemented a Linear Regression model with Gradient Descent from scratch in Python, supporting both single and multiple features. Built cost function, gradient updates, and feature normalization without ML libraries, and tested on house price prediction datasets while visualizing cost convergence to validate results.

Car Management Android Application
Developed an Android app in Java using SQLite to manage car data, track trips, and compare fuel consumption across vehicles. Designed interactive GUI's for easy data entry and visualization, strengthening skills in Android development, SQL, and database integration.

SKILLS

Programming Languages: Python, SQL, Java, C++, C, C#, Object-Oriented Programming
Machine Learning & Data Analysis: Supervised & Unsupervised Learning, Linear & Logistic Regression, Gradient Descent, Regularization, Neural Networks
Version Control: Git, GitHub
Databases: SQLite, MySQL
Productivity Tools: Microsoft Office Suite (Word, Excel, Access, PowerPoint)

CERTIFICATES

Machine Learning Specialization
DeepLearning.AI

Vellum Diploma in IT Skills Standard and Proficiency Level
Vellum Global Educational Services

VOLUNTEERING

Το Χαμόγελο του Παιδιού – The Smile of the Child | 2023 – 2024
Supported vulnerable children and families through community initiatives, building teamwork and communication skills