

# PANAGIOTIS KEFALAS

Portfolio

in LinkedIn

GitHub

@ panoskefalas@outlook.com

+30 6987302161

Thessaloniki, Greece

## EXPERIENCE

### Data Scientist

#### Freelancing (part-time)

September 2020 – Ongoing

Thessaloniki, Greece, Global

*Delivered projects in the E-Commerce, Environmental and Energy industry. Hands-on experienced in:*

- Data acquisition: Web scraping scripts in Python (bs4, Selenium) / API calls / MySQL queries
- Data preprocessing: Statistical (Pandas) or K-NN (Scikit-learn) imputation and cleaning, feature transformation pipelines (scaling, encoding, mapping, variable derivation or feature splitting/merging).
- EDA: Descriptive statistics, trends, patterns, auto regression and correlation recognition and analysis (Pandas, Statsmodels), visualization (Matplotlib, Seaborn), outlier detection and filtering (FFT).
- Modeling: Dimensionality reduction (PCA, t-SNE, SOM), Linear/Logistic Regression algorithms, SVM (linear/rbf kernels), Decision Trees, and Ensemble methods (eg. Random Forest, XGBoost) and K-Means clustering.
- Validation and tuning: K-fold Cross validation, Grid-search hyperparameter tuning and iterative feature selection, regularization, normalization, weight distribution, kernel selection, n-clusters etc.
- Testing and maintenance: Evaluation metrics calculation against unseen data, model selection, monitoring and re-evaluation to new data

### Software Engineer

#### Kenotom P.C. Embedded engineering excellence (full-time)

Oct. 2022 – Ongoing

Thessaloniki, Greece

*Kenotom specializes in embedded systems software and industrial automation. As a Software Engineer I am responsible for developing and testing production ready application software.*

- Excellent client evaluation received after 3 successful software releases to top automotive companies
- Optimized team's efficiency by developing clean coded automation scripts in MATLAB and Python
- Enhanced my skills in OOP and data structures, system modeling, code reviewing, test automation and debugging, requirements engineering, control systems and simulation, version control
- Improved client communication and teamwork, working under pressure and problem solving

## PROJECTS

### Competitor price monitoring

#### E-commerce Analytics - Private Client

2023

Thessaloniki, Greece

*This tool provides the convenience of storing prices of competitors' e-commerce platforms all the way to creating reports.*

- Data scraping (bs4), cleaning and structuring (Pandas DF)
- Google API dataframe (gsread) to sheets and LookerStudio visualization
- For the notebook please check my [portfolio](#)

## PROGRAMMING

Python  
SQL  
MATLAB  
C



## SKILLS

### Frameworks and Tools

Pandas Numpy Scikit-Learn  
Statsmodels BeautifulSoup Selenium  
Seaborn Matplotlib Python MySQL  
Git/Github Google Analytics  
LookerStudio Jira

### Models and Algorithms

Linear Regression Logistic Regression  
SVM K-Means K-NN Naive Bayes  
Gradient Descent Newton Raphson  
FFT SOM PCA t-SNE  
Random Forest XGBoost

### Development Tools – IDE

VS Code Anaconda Spyder  
Jupyter Notebook Notepad++ Bash

### Technical and Soft skills

Linear algebra Calculus Statistics  
Probability Problem-solving  
Optimization Fast learning

## EDUCATION

Mechanical Engineer Masters'  
Energy Production and Management  
Aristotle University of Thessaloniki

Nov 2022

Master Thesis: [Analysis and modelling of air quality monitoring node data with computational intelligence methods](#)

## LANGUAGES

English  
German

