

# OMIROS PANTAZIS

MACHINE LEARNING SCIENTIST

## PROFILE

26-year old machine learning scientist  
based in London with 2+ years of  
working experience in machine  
learning and software engineering.

## SKILLS

- PYTHON
- MATLAB
- C/C++
- SQL
- PL/SQL
- TENSORFLOW
- KERAS
- SCIKIT-LEARN
- PANDAS/NUMPY/
- JUPYTER/ANACONDA
- AWS
- GIT
- SQL/NOSQL DATABASES
- WINDOWS/LINUX OS

## LANGUAGES

ENGLISH (FLUENT)  
GREEK (MOTHER TONGUE)

## CONTACT

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Github: omipan

## WORK EXPERIENCE

### Machine Learning Scientist @ swhere (London)

September 2017 - Present

Design and development of Machine Learning and Deep Learning architectures that can improve quality and speed of the decision making process of a business. Projects involved so far include: energy price prediction, prediction of degradation and failures of pumps, truck tyre lifetime maximization, smart meter rollout optimization and a EUH2020 project in collaboration with the group of professor Yee Whye Teh of the statistical department in the University of Oxford. Mainly working with: Python data science stack (Pandas, Numpy/Scipy, Jupyter), Scikit-learn, Keras, TensorFlow, AWS etc.

### Software Engineer @ Ernst & Young (Athens)

June 2015 - August 2016

Implementation and customization of Insurance Information Systems' object-oriented software functionalities for major Insurance companies in Europe. Also supported internally teams that dealt with data mining projects using Python.

### R&D Assistant @ Forecasting & Strategy Unit (NTUA)

May 2011 - December 2011

Software development support in a research lab of National Technical University of Athens focused on forecasting and strategical planning.

## EDUCATION

### MSc Machine Learning (Distinction) @ University College London (UCL)

September 2016 - September 2017

The modules selected covered among others: Deep Learning and Reinforcement Learning, Natural Language Processing, Supervised Learning, Graphical Models and Data Mining. Module projects included image-based facial expression recognition from images, digit classification, pixel prediction, playing Atari with Deep RL, construction of ranking model for information retrieval systems etc. My MSc project was in Computer Vision with Deep Learning and explored the utilization of techniques coming from the field of Psychophysics for interpretation of Convolutional Neural Networks and Object Localization. Tools: Python, TensorFlow, Keras, Numpy/Scipy.

### BSc/MSc Electrical & Computer Engineering @ National Technical University of Athens

October 2010 - March 2016

After the core semesters of studies, I chose Computer Science as major and specifically the specialization flows of Computer Software, Computer Systems & Biomedical Engineering. Module projects included development of a hotel database management system, My diploma thesis project was based on data mining from Twitter graph and topic modelling analysis using Unsupervised Machine Learning techniques like Latent Dirichlet Allocation (LDA) and K-Means. Tools: Python, Scikit-learn, Neo4j, Twitter APIs.

## FACTS

- \* Tutored Math, Physics & Computer Programming to high school students for 5 years
- \* 7 times National Water Polo Champion at all categories U-18 at Greece
- \* Water polo player for first divisions of Greece and UK/London
- \* Snowboarding and Surfing among favourite sport activities