


Emmanouil Markodimitrakis

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Skills

- Software engineering - Python, Java and C
- Machine and Deep Learning - Keras, Tensorflow, PyTorch
- Digital Image Processing - OpenCV
- Backend development - Java, Spring, Hibernate
- Frontend development - JavaScript, TypeScript and Angular

Experience

NOVEMBER 2020 - NOW

Graduate Scholarship / Computational BioMedicine Laboratory (CBML), Foundation for Research and Technology, Heraklion Crete

NOVEMBER 2020 - SEPTEMBER 2021

Teaching Assistant / Hellenic Mediterranean University, Heraklion Crete

- Medical Image Processing
- Computer Vision

NOVEMBER 2018 - NOVEMBER 2019

Software Engineer / Pastel Studios, Plovdiv Bulgaria

- Full stack Web development - Java (Spring, Hibernate) and Angular 7
- Databases (PostgreSQL, MySQL),
- Software development Python

MAY 2018 - OCTOBER 2018

Internship / The Natural interaction Learning Games Lab, Technological Educational Institute, Heraklion Crete

- Web scrapping application with python

Education

2021 - NOW

Master of Science in Computer Vision and Robotics / Le Centre Universitaire Condorcet, Le Creusot - France

2020 - 2021

Master of Science in informatics Engineering - Intelligent Systems and Computer Architecture / Hellenic Mediterranean University, Department of Electrical and Computer Engineering, Heraklion Crete

2013 - 2020

Bachelor of science in Informatics Engineering - Software engineering / Technological Educational Institute, Department of Informatics Engineering, Heraklion Crete

2020

Machine Learning Engineer Nanodegree / Udacity

2020

Introduction to Machine Learning with Tensorflow / Udacity

Foreign Languages

- English B2
- German B1

Projects

Prototype asset management

Supervised Learning: Finding Donors for CharityML

Identify Customer Segments

Deep Learning: Image Classifier

Plagiarism Project, Machine Learning Deployment

Creating a Sentiment Analysis Web App Using PyTorch and SageMaker

Thesis paper - Comparison of radiomics image analysis software

Radiomics techniques have revolutionized medical image processing, as they have the ability to export large numbers texture and shape characteristics with the ultimate goal, accurate diagnosis, segmentation and categorization of pathological areas. One of the factors that radiomics analysis techniques are so prevalent nowadays is rapid technological development and in particular processing power. This allows calculation of many features in a short time. For this reason, free software has been presented in the literature for calculation of the above features which are widely used from the scientific community. Recently, however, controversial research has been published questioning the reliability of these softwares due to the significant variation that observed in the values of features exported from different software. Based on the above, the main purpose of this work is to compare the most widespread radiomics feature extraction software for evaluation purposes of variability and repeatability in texture and shape characteristics between different implementations. Three software were used in the analysis such as the Pyradiomics library, the LifeX software and MaZda software based on their references in the literature. According to the results of the analysis, the exported characteristics go hand in hand between Pyradiomics and LifeX software, while MaZda software has large deviations.