

## Deep Learning (MSc Data Science)

Εργασίες



### Deep Learning Project 2 - Abnormality Detection in bone X-Rays



#### Στοιχεία εργασίας

**Τίτλος:**

Deep Learning Project 2 - Abnormality Detection in bone X-Rays

**Περιγραφή:**

## Introduction

Submit a report (approximately 10 pages, PDF format) for the following machine learning project. Explain briefly in the report the architectures that you used, how they were trained, tuned, etc. Describe challenges and problems and how they were addressed. Present in the report your experimental results and demos (e.g., screenshots) showing how your code works. Explain which architecture is better and why. Do not include code in the report, but include a link to a shared folder or repository (e.g. in Dropbox, GitHub, Bitbucket) containing your code. The project will contribute 60% to the final grade.

## Bone X-Ray abnormality detection.

Given a study containing X-Ray images build a deep learning model that decides if the study is normal or abnormal. You must use at least two different architectures, one using a CNN you have created from scratch and one using a pre-trained popular CNN (e.g., ResNet). Use the MURA dataset to train and evaluate your models. More information about the task and the dataset can be found at <https://stanfordmlgroup.github.io/competitions/mura/>

**Μέγιστη βαθμολογία:**

10

**Τύπος Βαθμολογίας:**

Αριθμός

**Ημερομηνία έναρξης:**

01-06-2020 10:21:48

**Προθεσμία υποβολής:**

07-07-2020 23:59:00

(απομένουν 15 ημέρες 23 ώρες 54 λεπτά)

**Τύπος εργασίας:**

Ατομική εργασία