

# Deep Learning Final Project: Benchmaking ML& DL Regression models for house price prediction

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## 1 Introduction

The main idea of this practical session is to set up a *Deep Learning Model* to infer the price of house using a given dataset. In order to do so, you will use [http://servan.fr/data/data\\_houses.zip](http://servan.fr/data/data_houses.zip) (also available in the Teams group). You will use deep learning and classical machine learning models, compare their performances using a standart metric.

## 2 Work to do

In order to realise this project, you have to **create scripts** in python to :

- load the data
- scale the data (if needed)
- define DL & ML models
- train your models
- evaluate your models

This practical should be very close to what you've seen in class, you should be able to do it in a few hours. Finally, you have to **write a report** that contains :

- Project description
- A (short)related work section
- Bottleneck description
- Description of the solution / approach
- Result explanation / analysis
- Conclusion

You can share your script either in teams or in github/gitlab (in this case, please share the links).

### 2.1 Submission

You have to post your report (in **pdf format**) and files before the end of July in the teams group (I should create a “devoir” for this purpose)

#### Recommendations :

- If you encounter some issues, feel free to send me an email, I'll answer you ASAP;
- I want you to **write a report**. This also means you have to put your name on it and to do an effort of presentation ! ;-)
- The report mark is important for the final course mark (100%);
- You shall work in groups if not, it's ok;

#### Warnings :

- If you send me your report lately, you will be penalised;
- Plagianism equal to zero;
- No report equal to zero;