

# AI Informatics Master UPSaclay

Searching for answers on the Internet is permitted, but please no cut-and-paste: ANSWER IN YOUR OWN WORDS to demonstrate your understanding. This test plays an important role in the evaluation process.

PRINT AS PDF before you hit the submit button and include with your application.

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**\*Obligatoire**

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In machine learning, what could be more problematic: too much data or too little data? Justify your answer. \*

If I have to confront these cases, I prefer to have too much data than too little, because I can more easily cut throughout the dataset than add data. Like during my intership...

What is cross-validation? \*

When I'm creating my model, I have to run it on different train\_test\_split to determine its average score.

What is overfitting? \*

It's when you fit well your train data, and you're far away of "reality". It's a danger you have to dodge.

What is the difference between unsupervised learning and supervised learning? \*

I don't remember the difference. I think you have to determine first what result you want in supervised learning, and in unsupervised learning you apply an algorithm on your dataset and you see what it's produced.

What is the difference between regression and classification? \*

When I classify, I give a label returned. And when I do a regression I have a value to interpret at the final. But I'm not sure.



What is reinforcement learning? \*

I haven't studied this. My teacher prefers to let this for the master, but I learned it's when you reuse your model on your training set to improve it.

What is your favorite machine learning toolkit and why? \*

It's SickitLearn, the only I used.

Explain in your own words how to compute an error bar with the bootstrap method (see e.g. <https://tinyurl.com/y4hx2zk8>)? \*

What's the bootstrap method? I haven't learnt this yet but what I'm reading now seems very interesting.

Have you participated in a data science or machine learning challenge or in a hackathon? If yes, describe your experience. \*

I have just do the "Nuit de l'info", and the "Global Game Jam" each year during my licence. And this year, with my team "Passage Python" we won some prizes (<https://www.nuitdelinfo.com/inscription/defis/liste>)

Are you using Github (or another online Git deposit), if so give us the URL. \*

<https://github.com/FloDarPie>

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