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Machine Learning with Python-From Linear Models to Deep Learning

Course **Progress Discussion** Resources Dates

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8. Debugging exercise

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Project0 due Feb 15, 2023 08:59 -03 Completed

In machine learning, there a lot of reasons why a model would fail to perform well. The designed, the data could be too noisy, it could just be a poor initialization, or a poor che etc. Therefore, it is vital to at least exclude engineering bugs using a debugger.

Fortunately, Python comes with a fully functional interactive debugger called pdb.

Before you tackle the last problem of this project, we recommend you take some time t example with this tutorial.

Debugging exercise

1.0/1 point (graded)

In this problem, you are given a buggy piece of code and are asked to debug it.

The goal of this exercise is for you to set up a working debugging system for yourselve an example.) Feel free to use other debuggers as you wish. But note that any extra prir submitted code will be graded as incorrect in the online code graders.

The function <code>get_sum_metrics</code> takes two arguments: a <code>prediction</code> and a list of <code>me</code> prediction (say, for instance, the accuracy or the precision). Note that each metric is a The function should compute each of the metrics for the prediction and sum them. It sl sum three default metrics, in this case, adding 0, 1 or 2 to the prediction.

Reminder: You should fix this function locally first, and run python debug.py in your make sure it behaves as expected on the simple test cases provided

Grader Note: : If the grader appears unresponsive and displays "Processing", it means crashed. Please resubmit your answers, and leave a message in the forum and we will as possible.

```
def get_sum_metrics(predictions, metrics=[]):
list_metrics_values = [metric(predictions) for metric in metrics]
sum_metrics = sum(list_metrics_values)
sum_metrics += 3*predictions+3
return sum_metrics
```



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