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Abstract Goes Here

Additional Key Words and Phrases: Deep Learning

1 INTRODUCTION

Notes taken while working on lecture 3

2 MAIN BODY

2.1 Google Colaboratory

This posting from a classmate in course discussion:

Christian Garbin Sunday Aug 26 at 4:32pm Google Colab ([Links to an external site.](#))[Links to an external site.](#), an online Jupyter platform, also offers a free GPU (a Tesla K80 ([Links to an external site.](#))[Links to an external site.](#)). It's limited to 12 hours of continuous runtime, but that's more than enough for experiments.

The catch: their Jupyter platform supports only the Python kernel.

However, one of the selling points of Keras is to offer the same (or very similar) API across different languages, so translating R Keras code to Python is a relatively simple task.

I translated the chapter 2 MINST example to Python here ([Links to an external site.](#))[Links to an external site.](#), to test the performance with and without a GPU. With GPU enabled the code runs in half of the time.

The link above is a live notebook, in case you want to play with it.

On a side note, the Google Colab platform is a great playground. This is a short tutorial ([Links to an external site.](#))[Links to an external site.](#) to get started, including how to use the GPU.

3 CONCLUSIONS

Lecture 3 the main thing we learned about is perceptron.

4 REFERENCES

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