Template for your posters - Deep Machine Learning

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Introduction

This is the template you'll use for your poster. You can add images:

Figure 1: Very relevant image

Lists:

- List item 1
- List item 2
- List item 3
  - Sub-list item 1
  - Sub-list item 2

And pretty much anything you can do in LaTeX.

Engagement

Make sure to keep your template engaging. To accomplish this, try to:

- Use images and diagrams to attract the reader and illustrate your ideas
- Don't write too much text (like a huge paragraph)
- Make the layout clear and as accessible as possible

For instance, instead of:

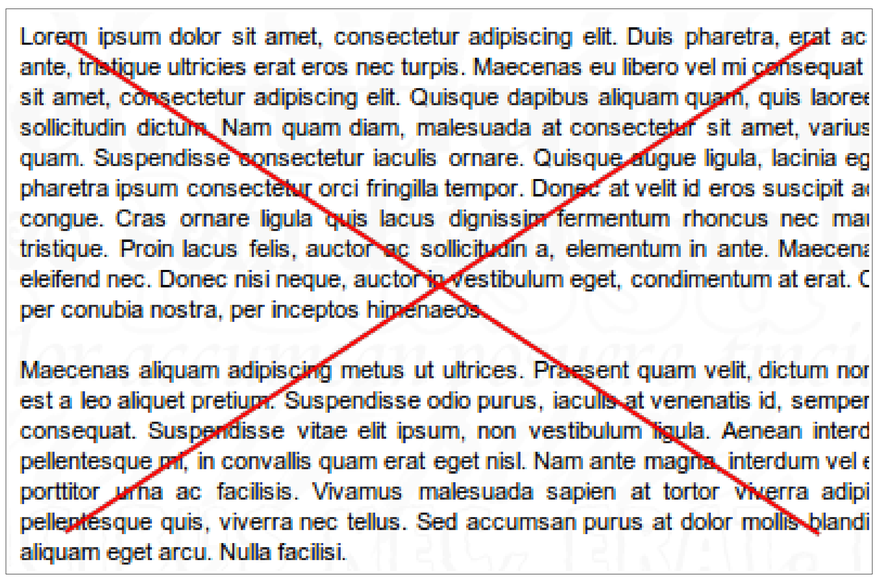

Figure 2: A bad idea for posters...

Find the main points you want to express and use a list

- Lorem
- ipsum
- sit amet
- consectetur

Or even better, use a diagram:

Figure 3: Of course, the diagram needs to be useful.

Other tips

- Feel free to use equations to illustrate your point

$$\sqrt{2} \vee \pi < \oint_{\infty}^{i} \cosh^{-1}(-\infty)\, d\Gamma \vee \cdots \pm \cosh^{-1}(e\Delta)\,.$$

  But make sure not to overdo it. Leave the details for your paper.
- Before you start editing this file, have a clear idea of how you want your poster to look like.
- Think about who's the target audience. Put yourself in their shoes. Amidst several others, would you stop to read your post?

Short example

Figure 4: A catdog

Is this a cat or a dog?

- Pretty easy to tell, right?
- Well, maybe not for a computer...
- Imagine you can only see the 1s and 0s. How can a computer solve this?

Current best approach

- Convolutional neural networks (CNNs)
- Training CNNs requires large amounts of data
- For each data point, we need to know its correct class beforehand

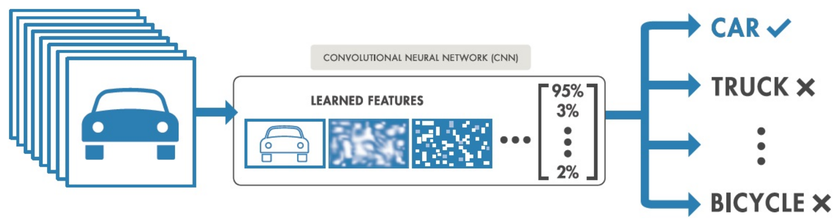

Figure 5: CNN framework

We compare the outputs from the CNN to the desired ones, and adjust its parameterization accordingly, using one of many optimization algorithms.

- Used gradient descent[1] for optimization
- Kaggle dataset of Cats vs Dogs [2] (25k images of cats and dogs)
- Achieved accuracy of more than 90% on new images!

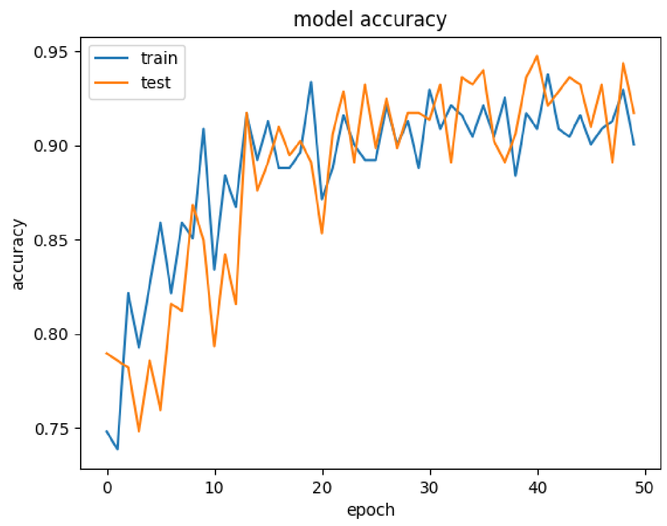

Figure 6: Caption

References

[1] P. Marjamäki.
IMAGING OF DOPAMINE AND SEROTONIN TRANSPORTERS.
PhD thesis, Turun Yliopisto University of Turku, 2011.

[2] S. O. Ögren and Eriksson.
The role of 5-Ht1A receptors in learning and memory.
Behavioural Brain Research, 195(1):54–77, Dec 2008.

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