Report Title

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Abstract

The abstract text goes here. Here is a bit more of my abstract.

1 Introduction

Here is the text of your introduction.

Here is a simple equation

$$\alpha = \sqrt{\beta} \tag{1}$$

I can refer to my equation by saying look at Equation (1).

Here is a multi-line equation:

$$f(\mathbf{x}; \mathbf{w}) = \sigma(\mathbf{w}^T \mathbf{x})$$

$$= \frac{1}{1 + e^{-\mathbf{w}^T \mathbf{x}}}$$
(2)

I can point people to literature like this [3] (a conference paper) or this [2] (a journal paper), or even this [1, Sec. 4.1] (a book, with section indicated). See the file report.bib for how these bibliographic entries are defined.

It helps to have a convention to the font used for particular mathematical objects. A common convention is: for simple values use lower case latin characters s (this might include observed values in probabilistic work); for sets use caligraphic upper case S; for vectors of values use bold latin s; for matrices use upper case latin S; and for parameters (including parameters in probabilistic models) use lower case greek letters (scalar), σ , bold greek (vectors), σ , and possibly uppercase greek for matrices of parameters Σ . However, it is up to you to develop your own style.

1.1 Subsection Heading

Write your subsection text here. Here I am referencing Section 1. Figures and tables can be inserted and referred to, e.g. Figure 1 and Table 1.



Figure 1: Simulation Results

	Interested	Understand
Linear Regression	N	Y
Neural Networks	Y	N

Table 1: Some results as a table.

1.2 Quoting and Emphasis

When you quote or emphasise things, you have a few options. I tend to put things in italics, e.g. Luke told me, *Put it in italics!*. If you prefer to put it in quote-marks then do so, but make sure you use left and right quotes properly, e.g. Luke told me, "Use left quotes to open, and right quotes to close!".

2 Background

Your background section text goes here...

3 Method

Your method section text goes here...

4 Results

Your results section text goes here...

5 Discussion

Your discussion section text goes here...

Declaration

This document represents the group report submission from the named authors for the project assignment of module: Foundations of Machine Learning and Data Science (INST0060), 2018-19. In submitting this document, the authors certify that all submissions for this project are a fair representation of their own work and satisfy the UCL regulations on plagiarism.

References

- [1] Christopher M. Bishop. Pattern Recognition And Machine Learning. Springer-Verlag New York, 2006.
- [2] Tom Fawcett. An Introduction to ROC Analysis. *Pattern Recognition Letters*, 27:861–874, 2006.
- [3] Tomas Mikolov, Kai Chen, Greg Corrado, and Jeffrey Dean. Distributed Representations of Words and Phrases and their Compositionality. In Advances in Neural Information Processing Systems (NIPS), pages 3111–3119, 2013.