National College of Ireland

Title

MSc Research Project
Data Analytics

Forename Surname
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School of Computing
National College of Ireland

Supervisor: XXX

National College of Ireland
Project Submission Sheet – 2017/2018
School of Computing

Student Name:	Forename Surname
Student ID:	x1234567
Programme:	Data Analytics
Year:	2016
Module:	MSc Research Project
Lecturer:	XXX
Submission Due Date:	13/8/2018
Project Title:	Title
Word Count:	XXX

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.

ALL internet material must be referenced in the bibliography section. Students are encouraged to use the Harvard Referencing Standard supplied by the Library. To use other author's written or electronic work is illegal (plagiarism) and may result in disciplinary action. Students may be required to undergo a viva (oral examination) if there is suspicion about the validity of their submitted work.

Signature:	
Date:	March 23, 2018

PLEASE READ THE FOLLOWING INSTRUCTIONS:

1. Please attach a completed copy of this sheet to each project (including multiple copies).
2. **You must ensure that you retain a HARD COPY of ALL projects**, both for your own reference and in case a project is lost or mislaid. It is not sufficient to keep a copy on computer. Please do not bind projects or place in covers unless specifically requested.
3. Assignments that are submitted to the Programme Coordinator office must be placed into the assignment box located outside the office.

Office Use Only	
Signature:	
Date:	
Penalty Applied (if applicable):	

Title

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x1234567
MSc Research Project in Data Analytics

March 23, 2018

Abstract

Abstract goes here. You should provide a high-level (approx. 150 – 250 words) overview of your paper, its motivation, and the core findings. This is the teaser of your work – it'll probably be best to write it last.

1 Introduction

In this section you need to motivate your project (appropriate citations are best for this), propose your core research question(s) and/or hypothesis or hypotheses, provide an overview of the paper; and briefly summarise the contribution to the scientific literature your work entails.

This is a nice little introduction with some figure in Figure 1

Figure 1: This is a caption

...

2 Related Work

In this section you need to situate your work in the academic literature; this entails a critical (positive, negative, helpful) review of similar work. If you can't find similar work, you haven't looked hard enough. Ideally, you want to be reading around 50 papers; of which at least 25 should appear in the paper itself. Note that urls are not references, they are footnotes.[1]

The content sections of your report should of course be structured into subsections. Note that here there are 2 subsections subsection 2.1 and subsection 2.2.

[1] Like this one: `http://www.ncirl.ie`

2.1 Subsection 1

Lorem ipsum dolor sit amet, ut veri deleniti eloquentiam sea (Feng and Buyya; 2016). Ea commodo aperiam complectitur pri, usu et case dolore. Kune et al. (2016) ad quidam regione percipitur, est ut possit bonorum persecuti. Quis utinam offendit eu usu, eu accumsan disputando per, id cibo reprehendunt sit (Beloglazov and Buyya; 2015; Gomes et al.; 2015). In melius legendos corrumpit pro. Eos dico dignissim voluptatibus et, duo nisl cibo ut. Diceret periculis posidonium cum eu. Gomes et al. (2015) regione nam ex. Vix id viris phaedrum. Pri augue cetero probatus ut.

A nice little way of leaving yourself notes and reminders:

(Write Lit Review in English) **ToDo**

2.2 Subsection 2

In Table 1 an example table is provided.

Animal	Description	Price ($)
Gnat	per gram	13.65
	each	0.01
Gnu	stuffed	92.50
Emu	stuffed	33.33
Armadillo	frozen	8.99

Table 1: A table

3 Methodology

You will of course want to discuss your research as well as evaluation methodology – otherwise how will your examiners know that you have followed an appropriate scientific process and rationalised your choice of evaluation. Note that it may also be useful to base decisions in this section off your discussion of related work in section 2; some citations in this section probably also wouldn't hurt ...

4 Implementation

You will of course want to discuss your implementation ...

Of all the sections in your paper, this is the easiest to write; it's a good place to start the document.

5 Evaluation

Rationale and evaluation approach ...

5.1 Experiment / Case Study 1

...

5.2 Experiment / Case Study 2

...

5.3 Experiment / Case Study 3

...

5.4 Experiment / Case Study N

...

5.5 Discussion

A detailed discussion of the findings from the N experiments / case studies. Note that this discussion will have a lot more detail than the discussion in the following section (Conclusion).

...

6 Conclusion and Future Work

(Partially) answer your research question and discuss the implications of your (partial) answer, talk about the efficacy of your research, and discuss its limitations.

...

Present **MEANINGFUL** future work. Sweeping more parameters in your simulation / model / platform is probably not meaningful. More discuss what could a follow up research project do, to better / differently approach / extend etc. your work.

References

Beloglazov, A. and Buyya, R. (2015). Openstack neat: a framework for dynamic and energy-efficient consolidation of virtual machines in openstack clouds, *Concurrency and Computation: Practice and Experience* **27**(5): 1310–1333.

Feng, G. and Buyya, R. (2016). Maximum revenue-oriented resource allocation in cloud, *IJGUC* **7**(1): 12–21.

Gomes, D. G., Calheiros, R. N. and Tolosana-Calasanz, R. (2015). Introduction to the special issue on cloud computing: Recent developments and challenging issues, *Computers & Electrical Engineering* **42**: 31–32.

Kune, R., Konugurthi, P., Agarwal, A., Rao, C. R. and Buyya, R. (2016). The anatomy of big data computing, *Softw., Pract. Exper.* **46**(1): 79–105.