Title

Student Name (Student ID)

Data Analytics for Artificial Intelligence – H9DAI

MSCAI1 / MSCAI1B

School of Computing

National College of Ireland

# Background Research

Should provide information on the background of the topic chosen. This is an example of a citation (Beloglazov & Buyya, 2015). The background research should provide the study into the field that students are interested in, that must define the task and data of this work. Furthermore, this section should include a brief literature review of data analytics techniques and machine learning algorithms that have been applied to the specific data.

As per the template, the first paragraph has no indent to start off the section. The following paragraphs have an indent. This setting should be maintained across the document.

Some text of wisdom in Latin for the demonstration purposes: Lorem ipsum dolor sit amet, ut veri deleniti eloquentiam sea. Ea commodo aperiam complectitur pri, usu et case dolore. (Gomes, et al., 2015) ad quidam regione percipitur, est ut possit bonorum persecuti. Quis utinam o endit eu usu, eu accumsan disputando per, id cibo reprehendunt sit (Kune, et al., 2016). In melius legendos corrumpit pro. Eos dico dignissim voluptatibus et, duo nisl cibo ut. Diceret periculis posidonium cum eu. regione nam ex. Vix id viris phaedrum. Pri augue cetero probatus ut.

# Data Analytics

The Data Analytics section should explain the statistical techniques used in this work and presents a comprehensive analysis of the data.

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## A meaningful subsection

If you need to write a subsection, please use this format.

## Another meaningful subsection

If you need to write another subsection, please use this format.

## Examples of Citations

Long citation format example: This idea was explored in a number of related works (Beloglazov & Buyya, 2015; Feng & Buyya, 2016; Gomes, et al., 2015).

Short citation format: (Mugoya & Kampfe, 2010) explored method A, while (Kune, et al., 2016) studied method B. Here, MS Word does not allow short citation format as you can see.

# Machine Learning Algorithms

Students must propose appropriate one or more ML algorithms that potentially work well with the task and data of their choice. In this section, students should also provide details how they conduct experiments, in particular experiments on different data settings.

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# Evaluation and Discussion

Students must report the results of their experiments and provide analysis and discussion around their results. Specifically, students should provide detailed analysis on what impact data analytics has on the performance of ML models.

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# Conclusion

Students should conclude their report with a brief summarisation of data analytics techniques and AI technologies studied in this TABA. Furthermore, students should highlight the impact the data analytics on the end results.

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References

Beloglazov, A. & 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), pp. 1310-1333.

Feng, G. & Buyya, R., 2016. Maximum revenue-oriented resource allocation in cloud. *International Journal of Grid and Utility Computing,* 7(1), pp. 12-21.

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

Kune, R. et al., 2016. The anatomy of big data computing. *Software—Practice & Experience,* 46(1), pp. 79-105.

Mugoya, G. & Kampfe, C., 2010. Reducing the Use of PRN Medication in In-Patient Psychiatric Hospitals. *Journal of Life Care Planning,* 9(2).