

# APPLIED MACHINE LEARNING SYSTEM ELEC0132 19/20 REPORT

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## ABSTRACT

This section provides a brief overview of the methodology/results presented in the report.<sup>1</sup>

**Index Terms**— One, two, three, four, five

## 1. INTRODUCTION

This section introduces the problem, a brief bird's-eye view of the methodologies you adopted and the organization of this report.

A citation example is given here [1].

## 2. LITERATURE SURVEY

This section should focus on an overview of potential approaches to solve the tasks. You can introduce some classical and state-of-the-art machine learning algorithms.

## 3. DESCRIPTION OF MODELS

In this section, you should briefly describe the model you are using for each task, along with the rationale. You may opt to use a single learning algorithm to solve the problem or multiple ones, but bear in mind there are page limitations and that you should explain your rationale behind your choices. That is, the algorithmic description must detail your reasons for selecting a particular model.

You can clarify them with flow charts, figures or equations. An example of how to draw an image is demonstrated in Fig. 1.

### 3.1. Task A1: the task name

Hello world!

### 3.2. Task A2: the task name

Hello world!

### 3.3. Task B1: the task name

Hello world!

<sup>1</sup>The code is provided link-to-download-your-project.com and GitHub project: link-to-your-github-project



**Fig. 1.** A nice view of Roberts Building

### 3.4. Task B2: the task name

Hello world!

## 4. IMPLEMENTATION

This section must provide the detailed implementation of your models. In particular, you must provide the name and use of external libraries, explain hyper-parameter selection, training pipeline (if any) and key modules/classes/functions/algorithms.

You also must provide a detailed description of the dataset (content, size, format, etc.), any data pre-processing that was applied and how you separate your dataset into training, validation and test sets.

The execution of your models also should be reported here. In particular, this section should include a thorough discussion on the training convergence and stopping criterion (it is recommended that learning curves graphs be used to this effect).

### 4.1. Task A1: the task name

#### 4.1.1. module name

Hello world!

### 4.2. Task A2: the task name

Hello world!

Task	Model	Train Acc	Val Acc	Test Acc
A1				
A2				
B1				
B2				

#### 4.3. Task B1: the task name

Hello world!

#### 4.4. Task B2: the task name

Hello world!

### 5. EXPERIMENTAL RESULTS AND ANALYSIS

This section describes and discusses your results. Additionally, this section should include accuracy prediction scores on a separate test dataset, provided by the module organizers, but not used during your training and validation process.

We recommend you use a table to list the tasks, models and results before analysis.

### 6. CONCLUSION

This last section summarizes the findings and suggests directions for future improvements.

### 7. REFERENCES

- [1] C.D. Jones, A.B. Smith, and E.F. Roberts, “Article title,” in *Proceedings Title*. IEEE, 2003, vol. II, pp. 803–806.