

# DATA ACQUISITION AND PROCESSING SYSTEMS ELEC0136 22/23 REPORT

SN: 12345678

## 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]. Use IEEE citation format.

## 2. DATA DESCRIPTION

This section details the data that was used for this study. For each data set, should clearly describe the content, size and format of the data. The reason for selecting each data set should also be provided in this section.

## 3. DATA ACQUISITION & STORAGE

### 3.1. Data Acquisition

This section presents the data acquisition process, explaining how each data set was acquired, and why did you choose the specific data acquisition method.

### 3.2. Data Storage

This section explains and justifies your data storage strategies.

## 4. DATA PREPROCESSING

This section should describe in detail all the preprocessing steps that were applied to the data. A justification for each step should also be provided. In case no or very little preprocessing was done, this section should clearly justify why. It is really important for you to clearly motivate and explain your reasoning. You can clarify them with flow charts, figures or equations. An example of how to draw an image is demonstrated in Fig. 1.

<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

### 4.1. Data Cleaning

Hello world!

### 4.2. Data Visualization

Hello world!

### 4.3. Data Transformation

Hello world!

## 5. DATA EXPLORATION

This section should summarize any data exploration task you have resorted to in order to find particular patterns within the data. Strong emphasis will be given to the justification and the reasoning that you applied in this phase.

### 5.1. EDA

Hello world!

### 5.2. Hypothesis testing

Hello world!

<b>Table 1.</b> Example of Table			
Col1	Col	Col3	Col4
Row1			
Row2			
Row3			
Row4			

## 6. DATA INFERENCE

This section should first describe the inference problem, then explain and justify the methodology used to approach the problem and finally present the results.

We recommend you use a table to list the tasks, models and results before analysis. If you need to refer to other section you can use this command (see example to mention Sec. 5.2).

### 6.1. Development of model using stocks

Hello world!

### 6.2. Development of model using stocks and other data sources

#### 6.2.1. External source 1

Hello world!

### 6.3. Evaluation metrics implementation

Hello world!

## 7. CONCLUSION

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

## 8. REFERENCES

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