

Literature Survey: Identifying anomalies within social media textual data

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Submitted as part of the degree of BSc Computer Science to the
Board of Examiners in the School of Engineering and Computing Sciences, Durham University

Abstract — These instructions give you guidelines for preparing the design paper. DO NOT change any settings, such as margins and font sizes. Just use this as a template and modify the contents into your design paper. Do not cite references in the abstract.

The abstract must be a Structured Abstract with the headings **Context/Background**, **Aims**, **Method**, and **Proposed Solution**. This section should not be no longer than a page, and having no more than two or three sentences under each heading is advised.

Keywords — Put a few keywords here.

I INTRODUCTION

A *Problem Background*

Social media can facilitate the forming of meaningful relationships. However, it can also be a breeding ground for hatred, propaganda and fake news propagation. Social Networks are coming under increasing pressure to tackle these issues and remove such comments. However, gathering feedback about user behaviour is a difficult task. To this aim, it is common practice to allow system users to flag comments they deem inappropriate. In spite of this, as systems grow in size, traditional reporting techniques do not scale effectively.

The aim of this project is to survey various vectorisation and anomaly detection techniques in order to develop an effective tool with which to detect anomalies among social media textual data.

B *Terms*

This section presents the proposed solutions of the problems in detail. The design details should all be placed in this section. You may create a number of subsections, each focusing on one issue.

This section should be up to 8 pages in length. The rest of this section shows the formats of subsections as well as some general formatting information. You should also consult the Word template.

II THEMES

A Text Data Vectorization

In order to extract meaningful data from large bodies of text, it must first undergo a pre-processing stage whereby the data is converted from its textual form into numerical data, known as vectorization.

B Anomaly Detection Techniques

In order to extract meaningful data from large bodies of text, it must first undergo a pre-processing stage whereby the data is converted from its textual form into numerical data, known as vectorization.

C References

The list of cited references should appear at the end of the report, ordered alphabetically by the surnames of the first authors. The default style for references cited in the main text is the Harvard (author, date) format. When citing a section in a book, please give the relevant page numbers, as in (Budgen 2003, p293). When citing, where there are either one or two authors, use the names, but if there are more than two, give the first one and use “et al.” as in , except where this would be ambiguous, in which case use all author names.

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References

Budgen, D. (2003), *Software Design*, 2nd edn, Addison Wesley.

Euther, K. (2006), Title of paper. unpublished.

Futher, R. (2006), Title of paper 2. submitted for publication.