Your thesis title, this is used in the title and abstract

*A thesis submitted in partial fulfillment of
the requirements for the degree of*

DOCTOR OF PHILOSOPHY

IN

COMPUTER SCIENCE

In the Faculty of Science

By

Your text

Under the Guidance of

Your text

DEPARTMENT OF COMPUTER SCIENCE
UNIVERSITY OF CALICUT
KERALA, INDIA

February 2025

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Certificate

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Abstract

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Keywords: Keyword 1, keyword 2, etc

Acknowledgements

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Contents

List of Figures

List of Tables

List of Abbreviations

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Dedicated to

Chapter 1

Introduction

Abstract: Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1.1 Section 1

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1.1.1 Section 1.2

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

1.2   Section 2

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Appendix A

Appendix - Readers' Emotion Detection

A.1 Legal and Ethical Concerns of REN Datasets

The necessary approval in using the data for non-commercial academic research purposes was obtained from Rappler Inc. The data from Rappler to create REN datasets was procured manually without using any automated crawling software. All participants engaged in the manual data collection process were sensitized about the nature of the research and were trained on assigning the news documents to various genres consistently. Further, informed consent was obtained before the participants took part in the process of dataset curation. There was no labeling or annotation required in terms of readers' emotions since it was available within the Rappler website. The study cites the Rappler website for the data source in our research as reference number [1] and also acknowledges Rappler's data source support and participants engaged in the manual data collection process, within the 'Acknowledgement' section.

A.2 Hyper-parameters of the baselines

Hyper-parameters used to build the deep learning baselines, Kim's CNN [2], GRU, LSTM [3], Bi-LSTM [4], Bi-LSTM+Attention, and emoBi-LSTM+Attention are provided in table A.1 to aid reproducibility.

TABLE A.1: Hyper-parameters of the deep learning baselines

Parameters	Kim's CNN	GRU	LSTM	Bi-LSTM	Bi-LSTM+ Attention	emoBi-LSTM +Attention
Filter size	3, 4 & 5	–	–	–	–	–
Number of filters	100	–	–	–	–	–
Number of RNN stack	–	1	1	1	1	1
Neurons in Stack	–	100	100	100	100	100
Embedding	Pre-trained GloVe	Pre-trained GloVe	Pre-trained GloVe	Pre-trained GloVe	Pre-trained GloVe	Pre-trained emoGloVe
Embedding dimension	100	100	100	100	100	100
Regularizer	*l2(0.01)*	*l2(0.01)*	*l2(0.001)*	*l2(0.001)*	*l2(0.001)*	*l2(0.001)*
Dropout	0.5	0.25	0.5	0.5	0.5	0.5
Loss	MSE	MSE	MSE	MSE	MSE	MSE
Optimiser	*Adam*	*Adam*	*Adam*	*Adam*	*Adam*	*Adam*
Learning rate	0.0005	0.005	0.0005	0.0005	0.0005	0.0005
Dense layer activation	*softmax*	*softmax*	*softmax*	*softmax*	*softmax*	*softmax*
Batch size	64	64	128	128	128	128
Epoch	100	100	100	100	100	100

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[3]   Florian Krebs., Bruno Lubascher., Tobias Moers., Pieter Schaap., and Gerasimos Spanakis. "Social Emotion Mining Techniques for Facebook Posts Reaction Prediction". In: *Proceedings of the 10th International Conference on Agents and Artificial Intelligence (ICAART)*. Volume 1. INSTICC: SciTePress, 2018, pages 211–220. ISBN: 978-989-758-275-2. DOI: 10.5220/0006656002110220.

[4]   Bernhard Kratzwald, Suzana Ilić, Mathias Kraus, Stefan Feuerriegel, and Helmut Prendinger. "Deep learning for affective computing: Text-based emotion recognition in decision support". In: *Decision Support Systems* 115 (2018), pages 24–35. ISSN: 0167-9236. DOI: https://doi.org/10.1016/j.dss.2018.09.002.