Table of Contents

[Abstract 1](#_Toc133253237)

[Acknowledgements 1](#_Toc133253238)

[Chapter 1: Introduction 1](#_Toc133253239)

[I. Overview 1](#_Toc133253240)

[II. Problem Statement 1](#_Toc133253241)

[III. Research Questions 1](#_Toc133253242)

[Chapter 2: Background 1](#_Toc133253243)

[I. Dataset 1](#_Toc133253244)

[II. Literature Review 1](#_Toc133253245)

[III. Research Gap 1](#_Toc133253246)

[IV. Algorithms 1](#_Toc133253247)

[a. TFIDF 1](#_Toc133253248)

[b. Count Vectorizer 1](#_Toc133253249)

[c. Logistic Regression 1](#_Toc133253250)

[d. SVM 1](#_Toc133253251)

[e. XGBoost 1](#_Toc133253252)

[f. Decision Tree 1](#_Toc133253253)

[g. Artificial Neural Network 1](#_Toc133253254)

[Chapter 3: Methodology 1](#_Toc133253255)

[I. Tools and Techniques 1](#_Toc133253256)

[II. EDA and Visualization 1](#_Toc133253257)

[Chapter 4: Results and Conclusion 1](#_Toc133253258)

[I. Critical Discussion 1](#_Toc133253259)

[II. Conclusion 1](#_Toc133253260)

[III. Future Work 1](#_Toc133253261)

[Chapter 5: Legal, Ethical and Professional Issues 1](#_Toc133253262)

[References 1](#_Toc133253263)

[Appendices 1](#_Toc133253264)

# Abstract

# Acknowledgements

# Chapter 1: Introduction

## Overview

## Problem Statement

## Research Questions

# Chapter 2: Background

## Dataset

## Literature Review

## Research Gap

## Algorithms

### TFIDF

### Count Vectorizer

### Logistic Regression

### SVM

### XGBoost

### Decision Tree

### Artificial Neural Network

# Chapter 3: Methodology

## Tools and Techniques

## EDA and Visualization

# Chapter 4: Results and Conclusion

## Critical Discussion

## Conclusion

## Future Work

# Chapter 5: Legal, Ethical and Professional Issues

# References

# Appendices