# TASL PROJECT

Submitted in partial fulfillment of the requirements of the degree of

BACHELOR OF ENGINEERING

In

COMPUTER ENGINEERING

By

Group 7

Parth Puranik Mohib Sayed Hamza Sayyed

Om Shete

Guide:

**20**

DR. TANUJA SARODE

(Professor, Department of Computer Engineering, TSEC)



Computer Engineering Department Thadomal Shahani Engineering College University of Mumbai

2022-2023

# Title

Submitted in partial fulfillment of the requirements of the degree of

BACHELOR OF ENGINEERING

In

COMPUTER ENGINEERING

By Group No:

Roll No. Name of Student

Roll No. Name of Student

Roll No. Name of Student

Roll No. Name of Student

Guide:

**20**

Rest all 16

DR. TANUJA SARODE

(Professor, Department of Computer Engineering, TSEC)



Computer Engineering Department Thadomal Shahani Engineering College University of Mumbai

2022-2023

# CERTIFICATE

This is to certify that the project entitled **“Title of project”** is a bonafide work of

Roll No. Name of Student

Roll No. Name of Student

Roll No. Name of Student

Roll No. Name of Student

Submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of **“BACHELOR OF ENGINEERING”**in**“COMPUTER ENGINEERING”**.

Name and sign Guide

Name and sign Name and sign

Head of Department Principal

Project Report Approval for B.E

Project report entitled ***Title*** by

Roll No. Name of Student

Roll No. Name of Student

Roll No. Name of Student

Roll No. Name of Student

is approved for the degree of ***“BACHELOR OF ENGINEERING” in “COMPUTER ENGINEERING”****.*

Examiners

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:

Place:

## Declaration

I declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. we also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Signature)

Name of student and Roll No.

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Signature)

Name of student and Roll No.

3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Signature)

Name of student and Roll No.

4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Signature)

Name of student and Roll No.

Date:

# Abstract

10 to 15 lines

|  |  |  |
| --- | --- | --- |
|  | **Table of Content** |  |
| List of Figures |  | iii |
| List of Tables |  | iv |
| Chapter 1 | **Introduction** | 1 |
|  | 1.1 Introduction | 1 |
|  | 1.2 Problem Statement and Objectives | 1 |
|  | 1.3 Scope | 2 |
| Chapter 2 | **Review of Literature** | 3 |
|  | 2.1 Domain Explanation | 3 |
|  | 2.2 Review of Existing Systems | 4 |
|  | 2.3 Limitations of Existing Systems/ Research Gaps | 5 |
| Chapter 3 | **Proposed System** | --- |
|  | 3.1 Analysis/Framework | --- |
|  | 3.2 Design Details  (GUI Design, DFD, Flowchart, Deployment Diagram etc.) | --- |
|  | 3.3 Methodology | --- |
| Chapter 4 | **Implementation Details** | --- |
|  | 4.1 Experimental Setup  4.1.1 Dataset Description/Database Details | --- |
|  | 4.2 Software and Hardware Setup  ( Description of Libraries Used) | --- |
| Chapter 5 | **Results and Discussion** | --- |
|  | 5.1 Performance Evaluation Parameters  5.2 Implementation Results  5.3 Results Discussion | --- |
| Chapter 6 | **Conclusion and Future Work** |  |

|  |  |  |
| --- | --- | --- |
|  |  | --- |
| Appendix |  | --- |
| References |  | --- |
| List Of Publication |  | --- |

ii

# List of Figures

|  |  |  |
| --- | --- | --- |
| **Figure No.** | **Description** | **Page No.** |
| Figure 3.1 | System Architecture | 6 |
| Figure 4.1 | Sequence Diagram | 15 |
| Figure 4.2 | Database Architecture | 16 |
| Figure 4.3 | Training Set | 17 |
| Figure 4.4 | Company Profile | 18 |
| Figure 4.5 | Extract Tweets | 18 |
| Figure 4.6 | After Extraction is Done | 19 |
| Figure 4.7 | Naïve Bayes Output | 19 |
| Figure 4.8 | Active Stream Output | 20 |
| Figure 4.9 | Analysis Chart | 20 |
| Figure 4.10 | Accuracy | 21 |
| Figure 5.1 | Precision Graph | 31 |
| Figure 5.2 | Recall graph | 31 |
| Figure 5.3 | Precision v/s recall Graph | 32 |

iii

# List of Tables

|  |  |  |
| --- | --- | --- |
| **Table No.** | **Description** | **Page No.** |
| Table 3.1 | Pre-processing Example | 7 |
| Table 5.1 | Pre-processing Detailed Example | 23 |
| Table 5.2 | Company Profile Before Naïve Bayes | 24 |
| Table 5.3 | Example Tweet Set | 25 |
| Table 5.4 | Positive Tweet Set after Naïve Bayes | 26 |
| Table 5.5 | Negative Tweet Set after Naïve Bayes | 26 |
| Table 5.6 | Company Profile After Updating | 27 |
| Table 5.7 | Positive Tweet Set after Active Streaming | 27 |
| Table 5.8 | Negative Tweet Set after Active Streaming | 27 |
| Table 5.9 | Performance Analysis Table | 28 |
| Table 5.10 | Accuracy Table | 29 |
| Table 5.11 | Precision and Recall Table | 30 |

iv

**Chapter1 Introduction**

#### 1.1(Specimen„E‟)

* + 1. **Formatting Guidelines**

### Chapter#

**References**

##### IEEE standard Book,

* + - 1. J. F. Curtis, (Ed.), *Processes and Disorders of Human Comm-unication.* New York: Harper and Row, 1978.

##### Journal Paper,

* + - 1. J. Schroeterand M. M. Sondhi, “Techniques for estimating vocal-tract shapes from the speech signal,”*IEEE Trans. Speech Audio Process.*, vol. 2, no. 1, pp. 133–150, 1994.

##### Proceeding paper,

* + - 1. J. M. Pardo, “Vocal tract shape analysis for children,” in *Proc. IEEE Int. Conf. Acoust., Speech, Signal Process.*, 1982, pp. 763–766

**Note:-** Please do not write which is in Red color.

# Acknowledgement

Name of student Name of student Name of student

**Guidelines for preparation of Project Reports**

##### Project Reports Format Paper:

The report shall be Printed / Xeroxed on white bond paper, whiteness 95% or above, weight 70 gram or more per square meter. The size of the paper shall be standard A4; height 297 mm, width 210 mm.

##### Type Setting, Text Processing and Printing:

The text shall be printed on single side of a page **(BE report on both side of a page)** employing laser jet or Inkjet printer, the text having been processed using a standard text processor. The standard font shall be **Times New Roman** of **12 pts** with **1.5 line spacing**.

##### Page Format:

The Printed Sheets shall have the following written area and margins:

Top Margin : 15 mm

Head Height : 3 mm

Head Separation : 12 mm

Bottom Margin : 22 mm

Footer : 3 mm

Foot Separation : 10 mm

Left Margin : 30 mm

Right Margin : 20 mm

Text Height : 245 mm

Text Width : 160 mm When header is not used the top margin shall be 30 mm.

##### Pagination:

Page numbering in the text of the report shall be Hindu- Arabic numerals at the center of the footer. Page number “1” for the first page of the Introduction chapter shall not appear in print; only the second page will bear the number “2”. The subsequent chapters shall begin on a fresh page. Pagination for pages before the Introduction chapter shall be in lower case Roman numerals, e.g., “iv”.

##### Header:

When the header style is chosen, the header can have the Chapter number and Section number (e.g., Chapter 2, Section 3) on even numbered page headers and Chapter title or Section title on the odd numbered page header.

##### Paragraph format:

Vertical space between paragraphs shall be about 2.5 line spacing. The first line of each paragraph should normally be indented by five characters or 12mm. A candidate may, however, choose not to indent if s/he has provided sufficient paragraph separation. A paragraph should normally comprise more than one line. A single line of a paragraph shall not be left at the top or bottom of a page. The word at the right end of the first line of a page or paragraph should, as far as possible, not be hyphenated.

##### Chapter and Section Format:

* + 1. **Chapter:**

Each chapter shall begin on a fresh page with an additional top margin of about 75mm. Chapter number (in Hindu • Arabic) and title shall be printed at the center of the line in 6mm font size (18pt) in bold face using both upper and lower case (all capitals or small capitals shall not be used). A vertical gap of about 12 mm (spacing after font size 36 with single line spacing) shall be left between the Chapter number and Chapter title lines and between chapter title line and the first paragraph (sample is given as specimen

„E‟).

##### Sections and Subsections:

A chapter can be divided into Sections, Subsections and Sub-sub Sections so as to present different concepts separately. Sections and subsections can be numbered using decimal points, e.g. 2.2 for the second section in Chapter 2 and 2.3.4 for the fourth Subsection in third Section of Chapter 2. Chapters, Sections and Subsections shall be included in the contents with page numbers flushed to the right. Further subsections need not be numbered or included in the contents. The Section and Sub Section titles along with their numbers in 5 and 4mm (16 and 14 pt) fonts, respectively, in bold face shall be flushed to the left (not centered) with 15 mm space above and below these lines.

In further subdivisions character size of 3 and 3.5 with bold face, small caps, all caps and italics may be used for the titles flushed left or centered. These shall not feature in the contents.

##### Table / Figure Format:

Tables and figures should be presented in portrait style as far as possible. Small size table and figures (less than half of writing area of a page) should be incorporated within the text, while larger ones may be presented on separate pages. Table and figures shall be numbered chapter •wise. For example, the fourth figure in chapter 5 will bear the number Figure 5.4 or Fig 5.4.

Table number and title will be placed above the table while the figure number and caption will be located below the figure. Reference for Table and Figures reproduced from elsewhere shall be cited in the last and separate line in the table and figure caption.

**Spine**

**B.E (Computer Engineering) 2022-23**