**TABLE OF CONTENTS**

|  |  |  |
| --- | --- | --- |
| CHAPTER NO. | TITLE | PAGE NO. |
|  | **ABSTRACT** | **II** |
|  | **LIST OF TABLES** | **V** |
|  | **LIST OF FIGURES** | **VI** |
|  |  |  |
| 1 | **INTRODUCTION** | **1** |
|  | 1.1 Impact of social media | 1 |
|  | 1.2 Tweet Classification | 1 |
|  | 1.3 Analyzing Tweets | 2 |
|  | 1.4 Importance of predicting location | 3 |
|  | 1.5 Applications of Location Prediction from Twitter | 3 |
| 2 | **LITERATURE SURVEY** | **7** |
|  | 2.1 Existing System | 7 |
|  | 2.2 Proposed System | 9 |
|  | 2.3 System Study | 11 |
| 3 | **REQUIREMENT SPECIFICATION** | **13** |
|  | 3.1 Software Requirements | 13 |
|  | 3.2 Hardware Requirements | 15 |
| 4 | **SOFTWARE REQUIREMENT ANALYSIS** | **16** |
|  | 4.1 Problem Definition | 16 |
|  | 4.2 Functional Requirements | 16 |
|  | 4.3 Non-Functional Requirements | 21 |
| 5 | **SOFTWARE DESIGN** | **22** |
|  | 5.1 System Architecture | 23 |
|  | 5.2 UML Diagrams | 24 |
| 6 | **SOURCE CODE** | **34** |
| 7 | **TESTING** | **46** |
|  | 7.1 Test Cases | 49 |
| 8 | **OUTPUT SCREENS** | **54** |
| 9 | **CONCLUSION** | **63** |
| 10 | **REFERENCES** | **64** |

**LIST OF TABLES**

|  |  |  |
| --- | --- | --- |
| TABLE NO | TABLE NAME | PAGE NO. |
| 7.1.1  7.1.2  7.1.3  7.1.4  7.1.5  7.1.6  7.1.7  7.1.8  7.1.9  7.1.10 | Login  Activate Registered Users  Upload Data Set  Preprocess  Run Decision Tree Algorithm  Run Naïve Bayes Algorithm  Run Support Vector Machine  Decision Tree Algorithm Accuracy  Naïve Bayes Algorithm Accuracy  SVM Algorithm Accuracy | 49  50  50  51  51  52  52  52  53  53 |

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| FIGURE NO. | FIGURE NAME | PAGE NO. |
| 4.3.1.8 | Decision Tree model | 21 |
| 5.1 | System Architecture | 23 |
| 5.2.1 | Use Case Diagram | 24 |
| 5.2.2 | Class Diagram | 25 |
| 5.2.3 | Sequence Diagram Preprocessing | 27 |
| 5.2.4  5.2.5  5.2.6  5.2.7  5.2.8  5.2.9 | Sequence Diagram Testing Decision Tree  Sequence Diagram Testing Naïve Bayes  Sequence Diagram Testing SVM  Sequence Diagram Result Decision Tree  Sequence Diagram Result Naïve Bayes  Sequence Diagram Result SVM | 28  29  30  31  32  33 |
| 8.1 | Main Screen | 54 |
| 8.2 | User Registration | 55 |
| 8.3 | User Login | 55 |
| 8.4 | User Home | 56 |
| 8.5 | Enter Tweet | 56 |
| 8.6 | Tweet Result | 57 |
| 8.7 | Tweet Training Data Set | 57 |
| 8.8 | NB Result User End | 58 |
| 8.9 | SVM Result User End | 58 |
| 8.10 | Decision Tree Result User End | 59 |
| 8.11 | Admin Login Page | 59 |
| 8.12 | Admin Login Home Page | 60 |
| 8.13 | Activate User | 60 |
| 8.14 | Admin View NB Result | 61 |
| 8.15 | Admin View SVM Result | 61 |
| 8.16 | Admin View Decision Tree Result | 62 |