**CONTENTS**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **TITLE** | **PAGE NO** |
| **1.** | **INTRODUCTION** | **1** |
|  | 1.1 INTRODUCTION | 1 |
|  | 1.2 LITERATURE SURVEY | 2 |
| **2.** | **SYSTEM ANALYSIS** | **8** |
|  | 2.1 EXISTING SYSTEM | 8 |
|  | 2.2 PROPOSED SYSTEM | 8 |
|  | 2.3 SYSTEM REQUIREMENTS | 9 |
|  | 2.4 SYSTEM MODULES | 10 |
|  | 2.5 FEASIBILITY STUDY | 12 |
| **3.** | **SYSTEM DESIGN** | **13** |
|  | 3.1 DATA FLOW DIAGRAMS | 13 |
|  | 3.2 UML DIAGRAMS | 15 |
|  | 3.3 DATA DICTIONARY | 21 |
| **4.** | **SYSTEM OVERVIEW** | **23** |
|  | 4.1 INTRODUCTION TO PYTHON | 23 |
|  | 4.2 INTRODUCTION TO ANACONDA NAVIGATOR | 23 |
|  | 4.3 JUPYTER NOTEBOOK | 25 |
|  | 4.4 ORACLE | 26 |
| **5.** | **SYSTEM IMPLEMENTATION** | **28** |
|  | 5.1 INTRODUCTION | 28 |
|  | 5.2 SAMPLE CODE | 28 |
|  | 5.3 DATABASE TABLES | 52 |
| **6.** | **SYSTEM TESTING** | **55** |
|  | 6.1 INTRODUCTION | 55 |
|  | 6.2 TEST CASES | 56 |
| **7.** | **OUTPUT SCREENSHOTS** | **59** |
| **8.** | **CONCLUSION** | **64** |
| **9.** | **FUTURE ENHANCEMENT** | **65** |
| **10.** | **BIBLIOGRAPHY** | **66** |
| **11.** | **WEBLIOGRAPHY** | **67** |

**LIST OF SCREENSHOTS**

|  |  |  |
| --- | --- | --- |
| **SNO** | **TITLE** | **PAGE NO** |
| 1. | 6.1 Testing Login Page | 56 |
| 2. | 6.2 Testing Assign Subject Page | 57 |
| 3. | 6.3 Testing Add Faculty Page | 57 |
| 4. | 6.4 Testing Add Student Page | 58 |
| 5 | 6.5 Testing Feedback Status Page | 58 |
| 6. | 7.1 Home Page Screen 1 | 59 |
| 7. | 7.2 Home Page Screen 2 | 60 |
| 8. | 7.3 Add Faculty Page | 60 |
| 9. | 7.4 Add Student Page | 61 |
| 10. | 7.5 View Faculty Page | 61 |
| 11. | 7.6 View Student Page | 62 |
| 12. | 7.7 Dashboard Page | 62 |
| 13. | 7.8 Give Feedback Page | 63 |
| 14. | 7.9 View Feedback Page | 63 |

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| **SNO** | **TITLE** | **PAGE NO** |
| 1. | 1.1 Sentiment Analysis Process | 4 |
| 2. | 1.2 Naive Baye’s flowchart | 7 |
| 3. | 3.1 Data Flow Diagram Level 0 | 13 |
| 4. | 3.2 Data Flow Diagram Level 1 | 14 |
| 5. | 3.3 Data Flow Diagram Level 2 | 14 |
| 6. | 3.4 Use Case Diagram for Admin | 16 |
| 7. | 3.5 Use Case Diagram for Student | 16 |
| 8. | 3.6 Use Case Diagram for Faculty | 17 |
| 9. | 3.7 Sequence Diagram for Admin | 17 |
| 10. | 3.8 Sequence Diagram for Student | 18 |
| 11. | 3.9 Squence Diagram for Faculty | 19 |
| 12. | 3.10 Activity Diagram for Student | 20 |
| 13. | 3.11 Activity Diagram for Faculty | 20 |

**LIST OF TABLE**

|  |  |  |
| --- | --- | --- |
| **SNO** | **TITLE** | **PAGE NO** |
| 1. | 5.3.1 Student Table | 52 |
| 2. | 5.3.2 Admin Table | 52 |
| 3. | 5.3.3 Faculty Table | 52 |
| 4. | 5.3.4 Subject Table | 53 |
| 5. | 5.3.5 Subject Details Table | 53 |
| 6. | 5.3.6 Feedback Table | 54 |

**ABSTRACT**

This project presents a combination of machine learning and natural language processing approaches for sentiment analysis of students feedback.Educational institutions used to collect feedback from the students on the main aspects of course such as preparations, delivery methods, punctual, skills and learning experience. The feedback is collected in terms of both qualitative and quantitative score towards the end of the semester. Student feedback is collected as response to set of positive and negative questions. Feedback about each topic are collected and made as a cluster. Classify the feedback using sentiment classifier and apply the natural language processing techniques to represent the views of students.

Sentiment analysis refers to the task of natural language processing to determine whether a piece of text contains some subjective information and what subjective information it expresses, i.e., whether the attitude behind this text is positive, negative or neutral. Understanding the opinions behind user-generated content automatically is of great help for commercial and political use, among others. The task can be conducted on different levels, classifying the polarity of words, sentences or entire documents.

Wide use of internet and web applications like, feedback collection systems are now making peoples smarter. In these applications, peoples used to give their feedback through which they have gone, and this feedback are publicly available for future references. It is a tedious task for the machines to identify the feedback types, i:e positive or negative. And here Machine Learning Techniques plays vital roles to train the machine and make it intelligent so that the machine will be able to identify the feedback type which may give more benefits and features for those web applications and the users. There are many supervised machine learning techniques are available so it is a difficult task to choose the best one

**KEYWORDS:**Students Feedback, Sentiment Analysis, Naive Bayes classifier, Natural Language Toolkit

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