**Module Name: Text Analytics and Sentiment Analysis**

**Module Code: CT107-3-3**

**Test Specification Table**

|  |  |  |
| --- | --- | --- |
| LO1 | Explain the key topics, techniques and algorithms in text analytics and sentiment analysis (C2, PLO1) | Final Exam |
| **LO2** | **Apply text analytics techniques and Natural Language Processing (NLP) methodologies to textual data in a practical environment (C3, PLO2)** | **Group Assignment** |
| **LO3** | **Use appropriate text analytics libraries in various stages of text analytics process (A3, PLO6)** |

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| **Assignment - Group - Part A (25%):** | |  |  |  |  |  |  |  |
| **Question No.** | **Topic** | **Question Vs Taxonomy** | | | | | | **PLO** |
| **Cognitive Level** | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** |
| **SQ** | **SQ** | **SQ** | **SQ** | **SQ** | **SQ** |
| **1** | Apply text analytics techniques and Natural Language Processing (NLP) methodologies to textual data in a practical environment |  |  | 100% |  |  |  | 2 |
|  | **Total** |  |  | **100%** |  |  |  |  |

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| **Assignment - Group - Part B (25%):** | |  |  |  |  |  |  |  |
| **Question No.** | **Topic** | **Question Vs Taxonomy** | | | | | | **PLO** |
| **Affective Level** | | | | | |
| **1** | **2** | **3** | **4** | **5** |  |
| **SQ** | **SQ** | **SQ** | **SQ** | **SQ** |  |
| **1** | Use appropriate text analytics libraries in various stages of text analytics process |  |  | 100% |  |  |  | 6 |
|  | **Total** |  |  | **100%** |  |  |  |  |

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Marking Sheet

Assignment - Group - Part A (25%):

|  |  |  |  |
| --- | --- | --- | --- |
| **Criteria** | | **Weight** | **Marks Obtained** |
| Q1 | Form tokenization and Filter stop words & punctuation | 10 |  |
| Q2 | Form word stemming | 10 |  |
| Q3 | Form Parts of Speech (POS) taggers & Syntactic Analysers | 10 |  |
| Q4 | Work on sentence probabilities | 10 |  |
| Q5 | Alternative Approach Implementation | 10 |  |
| **Total Marks** | | **50** |  |

**Comments:**

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| **Signature:** |  | **Date:** |  |

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| **RUBRICS** | **5** | **4** | **3** | **2** | **1** | **0** |
| **Distinction** | **Credit** | **Pass** | **Marginal Fail** | **Fail** | **Zero** |
| **Q1 10%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |
| **Q2 10%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |
| **Q3 10%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |
| **Q4 10%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |
| **Q5 10%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |

Marking Sheet

Assignment - Group - Part B (25%):

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| --- | --- | --- | --- |
| **Criteria** | | **Weight** | **Marks Obtained** |
| Q1 | Dataset and Exploratory Data Analysis (EDA) | 12 |  |
| Q2 | Supervised Text Classification | 14 |  |
| Q3 | Hyper parameter selection | 12 |  |
| Q4 | Evaluation & Discussion of the predictive models’ results | 12 |  |
| **Total Marks** | | **50** |  |

**Comments:**

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| **Signature:** |  | **Date:** |  |

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| **RUBRICS** | **5** | **4** | **3** | **2** | **1** | **0** |
| **Distinction** | **Credit** | **Pass** | **Marginal Fail** | **Fail** | **Zero** |
| **Q1 12%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |
| **Q2 14%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |
| **Q3 12%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |
| **Q4 12%** | Clear and complete answers with necessary explanation are provided. All answers are correct, and the information provided are relevant. | Clear, complete yet very basic explanation is provided but briefly discussed/identified. No irrelevant information is found. | Brief/vague descriptions and explanations provided in the answer. Some irrelevant information is found. | Done but some components are missing in the answer. Mostly irrelevant information are provided. | Done but many components are missing in the answer. Mostly irrelevant information are provided. | No evidence in documentation or softcopy. |