Assessment Submission Cover Sheet

This Assessment Cover Sheet **must** be included on all Assessment submissions.

|  |  |
| --- | --- |
| Assignment Title | Text Mining with Sentiment Analysis |
| Module |  |
| Student Name  (same as Student Card) |  |
| Student Number |  |
| Programme |  |
| Part-Time/Full-Time |  |
| Year of Study  (First Year, Second Year, etc) |  |

Late Submissions: Assessment submitted after the deadline will have a late penalty applied.

**Academic Integrity for assessment in TU Dublin Programmes**

Each student is responsible for knowing and abiding by TU Dublin Academic Regulations and Policies. Any student in breach of these regulation/policies will be subject to action in accordance with the University’s procedures for breaches of assessment regulations. Please refer to the General Assessment Regulations at

<https://tudublin.libguides.com/c.php?g=674049&p=4794713>

<https://www.tudublinsu.ie/advice/exams/breachesofregulations/>

All students are expected to complete their courses/programmes in compliance with University regulations. No student shall engage in any activity that involves attempting to receive a grade by means other than honest effort, for example:

1. No student shall complete, in part or in total, any examination or assessment for another person.
2. No student shall knowingly allow any examination or assessment to be completed, in part or in total, for themselves by another person.
3. No student shall plagiarise or copy the work of another and submit it as their own work.
4. No student shall falsify any data. Falsification is the invention of data, its alteration, its copying from any other source, or otherwise obtaining it by unfair means, or inventing quotations and/or references.
5. No student shall use aids or devices excluded by the lecturer in undertaking course work or assessments/ examinations.
6. No student shall knowingly procure, provide, or accept any materials that contain questions or answers to any examination or assessment to be given at a subsequent time.
7. No student shall provide their assignments, in part or in total, to any other student in current or future classes of this module/ programme unless authorised to do so by the lecturer.
8. No student shall submit substantially the same material in more than one module/programme without prior authorization.
9. No student shall alter graded assignments or examinations and then resubmit them for regrading, unless specifically authorised to do so by the lecturer.
10. All programming code and documentation, unless correctly referenced, submitted for assessment or existing in the student’s computer accounts must be the students’ original work or material specifically authorized by the lecturer.
11. Collaborating with other students to develop, complete or correct course work is limited to activities explicitly authorized by the lecturer.
12. For all group assignments, each member of the group is responsible for the academic integrity of the entire submission. Consequently, all group members must satisfy themselves that all elements of their submission adhere to the academic integrity statement points above.

By submitting coursework, either physically or electronically, you are confirming that it is your own work (or, in the case of a group submission, that it is the result of joint work undertaken by members of the group that you represent) and that you have read and understand the University’s Regulations and Policies covering Academic Integrity (see General Assessment Regulations)*.*

Coursework may be submitted to an electronic detection system in order to help ascertain if any plagiarised material is present. If you have queries about what constitutes plagiarism, please speak to your lecturer.

|  |  |
| --- | --- |
| Student Signature |  |
| Date |  |

IMPORTANT:

* Sections 1-8 should be no longer than 8 pages (minimum 5 pages), including diagrams, images, screen captures, tables, etc. A careful selection of these is needed.
  + Code does not count to this total. Code should be added to the relevant section.
  + Detailed discussion is expected. Marks are awarded based on the depth of information given.

Student Details for Group Submission:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student Name  (as per Student Card) | Student Number | Prog Code | Stream  (DS, ASD, etc) | Year  (1, 2, …) |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

For group submission, all students must insure they are compliant Plagiarism policy on cover page.

Cover page to be completed by one student. For all students in group, Submission of an Assessment, either physically or electronically, with or without this cover sheet, acknowledges your compliance with the TU Dublin Academic Regulations and Policies.

1. **Data Understanding and Preparation**

* Clearly state the problem Encompasses loading the dataset, performing exploratory data analysis (EDA), providing basic statistics, and preprocessing text data.
* Aligns with the "Business Understanding" and "Data Understanding" phases of CRISP-DM.

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1. **Data Visualization and Exploration**

* Conduct exploratory Involves using t-SNE to visualize documents in a two-dimensional space, interpreting and discussing the visual representation.
* Aligns with the "Data Understanding" and "Data Visualization" phases of CRISP-DM.

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1. **Model Building and Evaluation**

* Identify crucial features for sentiment analysis.
* Encompasses creating machine learning models, feature selection, evaluating their performance, analyzing confusion matrices, and comparing the accuracy of different models.
* Aligns with the "Modeling" and "Evaluation" phases of CRISP-DM.
* Encompasses comparing the performance of different models (e.g., BERT, FastText, Bag of words, Word Embedding, …) and exploring the possibility of improving accuracy using advanced models.

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**Continue the next sections following the same format.**