

Task 1

- a. **Text Classification** – the model outlined in this use case reviews the emails' content and places them into predefined folders or categories. This matches exactly what the Natural Language Processing (NLP) application **Text Classification** does, which is the processing of labelling or organising text into groups.
- b. **Automatic Summarisation** – the model described helps decide what grade should be given to an essay question. The most suitable NLP application for the task is **Automatic Summarisation** since it reduces the number of sentences and words in a text, book, or essay without changing its meaning. This can be extremely helpful since the grading can be done accurately and quickly.
- c. **Question Answering** – the model presented provides assistive technology for doctors to provide their diagnosis. Since doctors ask questions and rely on the patient's responses to access a condition and generate a diagnosis, the NLP application most suitable for the task would be **Question Answering**.