

Capstone Project

Compulsory task 1

Categorize which types of NLP application applies for each of the following use-cases.

A model that allocates which mail folder an email should be sent to, like Gmail's inbox tabs.

This application falls within the **text classification** functionality, where the model conducts content analysis and allocates the email to a predefined folder that matches its criteria.

A model that helps decide what grade to award to an essay question.

This application falls within the **automatic summarization** functionality. The model will summarize the essay and extract the most pertinent pieces of information. Afterwards we will need to feed this vector to a machine learning algorithm, regression or classification depending on whether we want to award a number or a label (A, B, C, etc).

A model that provides assistive technology for doctors to provide their diagnosis.

This application falls within the **question-answering** functionality. The model will ask questions that the patient will answer and based on the outcome of the replies the doctor will be able to make a diagnosis.