

14-003-2 Capstone Project - NLP Applications

Compulsory Task 1

- A model that allocates which mail folder an email should be sent to (work, friends, promotions, important), like Gmail's inbox tabs.
 - This is a clear example of 'Text Classification'
- A model that helps decide what grade to award to an essay question. This can be used by a university professor who grades a lot of classes or essay competitions.
 - One could make a case for either 'Automatic Summarisation' or 'Question Answering' for this case. The former would be a little dangerous given that it's possible the application might not summarise accurately in terms of the question being responded to. The latter could possibly work a bit better if the professor asked specific questions about the classwork or essay they were grading.
- A model that provides assistive technology for doctors to provide their diagnosis. Remember, doctors ask questions, so the model will use the patients' answers to provide probable diagnoses for the doctor to weigh and make decisions on.
 - The initial response to this would be 'Question Answering' but that might not be correct as the patient is answering question posed by the doctor. However if the doctor then posed questions to the application regarding the patient answers that might be a use case. It could also be an example of 'Text Classification' dependent on the form of the patient answers (verbal or written/typed)