nlp_1

In a file called nlp_1.pdf, categorise which type of NLP application applies for each of the following use-cases:
a. A model that allocates which mail folder an email should be sent to (work, friends, promotions, important), like Gmail's inbox tabs.

Use-case a.
Text Classification - This use-case involves categorising emails into different folders based on their content. It requires training a model to recognize patterns in the text that indicate which folder the email belongs to. We can organise our spam folders and inbox so that we can access relevant emails or messages more efficiently.

b. 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.

Use-case b.
Automated Essay Scoring - This use-case involves evaluating essays and assigning grades based on predefined criteria. It requires analysing the content and structure of the essay to identify features that are relevant to the grading process.The model can then be used to grade new essays and provide feedback to the essay writer.

c. 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 diagnosis for the doctor to weigh and make decisions

Use-case c.
Question-Answering and Named Entity Recognition - This use-case involves providing assistance to doctors in making medical diagnoses based on patient symptoms and medical history. To achieve this, the model needs to understand the patient's answers to the doctor's questions and identify relevant medical terms, such as symptoms, diseases, and treatments. Question-Answering and Named Entity Recognition models can be used to extract relevant information from the patient's answers and suggest probable diagnoses for the doctor to consider.