Compulsory Task 1:

Use case	NLP application category	Source
A model that allocates which mail folder an email should be sent to (work, friends, promotions, important), like Gmail's inbox tabs.	Information extraction	nlp_1.pdf, p. 10: https://web.stanford.edu/~jurafsky/slp3/3.pdf
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.	Natural language understanding	nlp_1.pdf, p. 11: https://web.stanford.edu/~jurafsky/slp3/3.pdf
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.	Natural language processing	nlp_1.pdf, p. 12: https://web.stanford.edu/~jurafsky/slp3/3.pdf

Additional information:

- Information extraction is the process of extracting structured information from unstructured text. In the case of the email categorization application, the model would need to extract the subject line and body of the email, and then use that information to determine which folder the email should be placed in.

- Natural language understanding is the process of understanding the meaning of text. In the case of the essay grading application, the model would need to understand the meaning of the essay question and the student's answer, and then use that information to determine the grade.

- Natural language processing is a broader term that encompasses both information extraction and natural language understanding. In the case of the doctor's diagnosis application, the model would need to perform both information extraction (to extract the patient's symptoms) and natural language understanding (to understand the meaning of the symptoms) in order to provide a probable diagnosis.
  www.chegg.com/homework-help/questions-and-answers/categorise-type-nlp-natural-language-processing-application-applies-following-use-cases--m-q69632504