A model that allocates which mail folder an email should be sent to

The best NLP application for this scenario is **Text classification**. The sender address and/or subject can be analysed to categorise the emails into the predefined categories. **Named entity recognition** may also be of use to categorise split into categories of person, organisation, etc.

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

The best NLP application for this scenario is **Automatic summarisation.** This will be useful as the essay answers will be summarised to key phrases and terms. There will be a "template solution" so to speak that will then be compared with the summarised answer, the more words/phrases that match with the template will increase the score given.

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

The best NLP application for this scenario is **Semantic Similarity**. The doctor would enter the patient's symptoms into the application, the entered phrase will be cross referenced with the database of other symptoms and the highest similarity scores will be returned, along with the matching diagnosis for the matching symptoms.