

A. Email filter.

The NLP application that categorises emails into different folders can be classified as a text classification or email classification task. This task involves analysing the content and metadata of an email to determine the appropriate category or folder to which it should be assigned. Specifically, it falls under the broader umbrella of document classification in the field of Natural Language Processing (NLP).

The model would typically learn from a labelled dataset, where each email is associated with its correct folder or category. It would extract relevant features from the email text, such as keywords, phrases, or contextual information, and use them to predict the appropriate folder. The model's training could involve techniques such as supervised learning, where it learns from examples with labelled data, or it could utilise more advanced techniques like deep learning or transfer learning.

Overall, this NLP application focuses on automated email organisation and utilises text classification techniques to allocate emails to the appropriate mail folders based on their content and context.

B. Text analytics

Automated essay scoring systems aim to assess the quality of essays based on various linguistic and content-based features. These models can be trained using supervised learning techniques, where they learn from a labelled dataset containing essays and their corresponding grades. The model extracts features from the essays, such as grammar, vocabulary, coherence, and argumentation, to make predictions about the grades.

C. Data analysis

The model analyses the patient's responses and matches them against a knowledge base of symptoms, medical conditions, and associated information. It utilises techniques such as natural language understanding, pattern recognition, and probabilistic reasoning to generate a list of possible diagnoses or suggestions for further investigation.