1. Deep Learning vs. Traditional Machine Learning (2 Marks)

Deep learning neural networks automatically learn features from raw, unstructured data like images, audio, and text, whereas traditional machine learning requires manual preprocessing and feature extraction. However, deep learning usually has a higher computational cost and requires more powerful hardware compared to traditional ML techniques.

1. LSTM Networks in NLP (2 Marks)  
   LSTM networks are used in NLP to remember important information over long sentences or sequences, which helps with tasks like text prediction or translation. Unlike traditional RNNs, LSTM networks solves the vanishing gradient problem, using gates to decide what to keep or forget so that long-range context is not lost.