Quiz: LSTM Based Classification  Please answer the following questions.	
chichportichjeremy@gmail.com Switch accounts  Not shared	Oraft saved
* Indicates required question	
Nom	
Your answer	
Adresse e-mail	
Your answer	
How do LSTMs handle the problem of vanishing gradients differently th traditional RNNs in the context of sentiment classification?	an * 1 point
By incorporating forget, input, and output gates to manage long-term	n dependencies.
By using higher learning rates during training.	
By using ReLU activation functions.	
By reducing the size of the input data.	



What are the specific roles of stop words removal, tokenization, and 1 point lemmatization in the preprocessing pipeline for sentiment analysis? Explain how each step contributes to the effectiveness of an LSTM model. Stop words removal eliminates common words to reduce noise; tokenization splits text into manageable units; lemmatization converts words to their base form, ensuring consistency and reducing dimensionality. Stop words removal increases the size of the dataset; tokenization groups words into sentences; lemmatization replaces words with synonyms. Stop words removal enhances the semantic meaning of the text; tokenization removes punctuation; lemmatization creates synonyms. Stop words removal changes the structure of sentences; tokenization adds new words to the dataset; lemmatization breaks down words into characters. Clear selection Considering a tokenizer, what challenges might arise when fitting a tokenizer on \* 1 point a large and diverse dataset, and how can these challenges be mitigated? Overfitting on rare words; use subword tokenization methods. Underfitting on common phrases; increase the vocabulary size. Memory constraints and large vocabulary size; apply a maximum vocabulary limit and handle out-of-vocabulary tokens. Difficulty in tokenizing numerical data; convert numbers to text form.



When integrating GloVe embeddings into an LSTM model for classification, what * 1 point are the potential limitations of using pre-trained embeddings, and how might these limitations affect model performance?	
0	GloVe embeddings have too high dimensionality; this increases the training time significantly.
0	Pre-trained embeddings are always more accurate than learned embeddings; they should not be modified.
0	Using GloVe embeddings increases model overfitting; this necessitates a larger training dataset.
•	GloVe embeddings may not capture domain-specific nuances; this can lead to lower accuracy in specialized datasets.
of a	v does the dimensionality of the embedding matrix influence the performance 1 point in LSTM mode, and what considerations should be made when choosing the pedding size?
of a	n LSTM mode, and what considerations should be made when choosing the
of a	n LSTM mode, and what considerations should be made when choosing the bedding size?  Higher dimensionality always improves performance; choose the largest possible
of a emb	hedding size?  Higher dimensionality always improves performance; choose the largest possible embedding size.  Dimensionality affects the balance between computational cost and the ability to capture word semantics; choose a size that balances these factors considering the
of a emb	h LSTM mode, and what considerations should be made when choosing the bedding size?  Higher dimensionality always improves performance; choose the largest possible embedding size.  Dimensionality affects the balance between computational cost and the ability to capture word semantics; choose a size that balances these factors considering the dataset size and computational resources.



In the context of training an embedding layer from scratch using LSTM, what are * 1 point the pros and cons compared to using pre-trained embeddings like GloVe?
Training from scratch can lead to embeddings tailored to the specific dataset but requires more data and computational resources; pre-trained embeddings provide a good starting point but may not capture domain-specific nuances.
Pre-trained embeddings always outperform learned embeddings; they should never be replaced.
C Learned embeddings are more accurate but harder to interpret; pre-trained embeddings are easier to interpret but less accurate.
There is no significant difference in performance between learned and pre-trained embeddings; either can be used interchangeably.
Do you have any feedback on the programming session?
Your answer

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