Artificial Intelligence Final Report Assignment 問題2 (Problem 2)

レポート解答用紙 (Report Answer Sheet)

Group Leader

学生証番号 (Student ID): 21522804

名前(Name): Phạm Hoài Vũ

Group Members

学生証番号 (Student ID): 21522885

名前(Name): Phan Thị Cát Tường

学生証番号 (Student ID): 21522747

名前(Name): Trịnh Tuấn Tú

問題2 (Problem 2)のレポート

1. Program

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Execution Results:

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Explanation

We are building the model RNN + LSTM, with hyperparameters random\_seed = 123, vocabulary\_size = 20000, learning\_rate = 1e-4, batch\_size = 128, num\_epochs = 15, embedding\_dim = 128, hidden\_dim = 256, output\_dim = 1, tokenize = ‘spacy’ and divide the IMDB dataset into train, test, valid (num\_train = 20000, num\_valid = 5000, num\_test = 25000), using binary accuracy, optimzer = adam.

We use RNN + LSTM + Glob + dropout (num\_layers = 2, hidden\_dim = 128, dropout = 0.4), replace initial embedding with pretrained embedding, replace and with zeros (they were initialized with the normal distribution)

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| --- | --- |
| Replace initial embedding with pretrained embedding | A black background with white text  Description automatically generated |
| Replace and with zeros  (they were initialized with the normal distribution) | A computer screen with white text  Description automatically generated |
| Model | A screen shot of a computer  Description automatically generated |
| Output |  |