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Graded Review Questions

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Instructions for Graded Review Questions

1. Time allowed: **Unlimited**

   • We encourage you to go back and review the materials to find the right answer

   • Please remember that the Review Questions are worth 50% of your final mark.

2. Attempts per question:

   • One attempt - For True/False questions

   • Two attempts - For any question other than True/False

3. Check your grades in the course at any time by clicking on the "Progress" tab

Review Question 1

1/1 point (graded)

What is a Recurrent Neural Network?

- 🔘 A Neural Network that can recur to itself, and is proper for handling sequential data

- ⚪ An infinite layered Neural Network which is proper for handling structured data

- ⚪ A special kind of Neural Network to predict weather

- ⚪ A markovian model to handle temporal data

[Submit]   You have used 1 of 2 attempts   💾 Save

💾 Your answers were previously saved. Click 'Submit' to grade them.

Review Question 2

1/1 point (graded)

What is NOT TRUE about RNNs?

- ⚪ RNNs are VERY suitable for sequential data.

- ⚪ RNNs need to keep track of states, which is computationally expensive.

- 🔘 RNNs are very robust against vanishing gradient problem.

[Submit]   You have used 1 of 2 attempts   💾 Save

💾 Your answers were previously saved. Click 'Submit' to grade them.

Review Question 3

1/1 point (graded)

What application(s) is(are) suitable for RNNs?

- ⚪ Estimating temperatures from weather data

- ⚪ Natural Language Processing

- ⚪ Video context retriever

○ Speech Recognition

◉ All of the above

[Submit] You have used 1 of 2 attempts

💾 Save

💾 Your answers were previously saved. Click 'Submit' to grade them.

Review Question 4

1/1 point (graded)

Why are RNNs susceptible to issues with their gradients?

○ Numerical computation of gradients can drive into instabilities

○ Gradients can quickly drop and stabilize at near zero

○ Propagation of errors due to the recurrent characteristic

○ Gradients can grow exponentially

◉ All of the above

[Submit] You have used 1 of 2 attempts

💾 Save

💾 Your answers were previously saved. Click 'Submit' to grade them.

Review Question 5

0/1 point (graded)

What is TRUE about LSTM gates?

○ The Read Gate in LSTM, determine how much old information to forget

◉ The Write Gate in LSTM, reads data from the memory cell and sends that data back to the network.

○ The Forget Gate, in LSTM maintains or deletes data from the information cell.

○ The Read Gate in LSTM, is responsible for writing data into the memory cell.

✖

[Submit] You have used 2 of 2 attempts

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