

Deeplearning lab(27-01-2025)

Panther& Ds

Points: 10/10 Time: 15:52

1. Name *

Dara Eakeswar Rayudu

2. registration *

22WU0105034

✓ **Correct** 1/1 Points

3. **D. What is the purpose of dropout in deep learning?** *

- ☐ A) To increase the number of neurons in a layer
- ☒ B) To randomly deactivate some neurons during training to prevent overfitting
- ☐ C) To increase the learning rate of the model
- ☐ D) To reduce the batch size

✓ **Correct** 1/1 Points



4. **C. Which of the following is NOT a technique to prevent overfitting?** *

- ☐ A) Adding more training data
- ☐ B) Using dropout layers
- ☒ C) Increasing the number of parameters in the model
- ☐ D) Using L1 or L2 regularization

✓ **Correct** 1/1 Points

5. **A) What is overfitting in deep learning?** *

- ☒ A) When the model performs well on training data but poorly on unseen data
- ☐ B) When the model performs well on both training and test data
- ☐ C) When the model underperforms on training data
- ☐ D) When the model does not train at all

✓ **Correct** 1/1 Points

6. **I. What is early stopping in deep learning?** *

- ☒ A) Stopping the training process before the model starts overfitting
- ☐ B) Reducing the number of layers in the network
- ☐ C) Using a small batch size to improve generalization
- ☐ D) Increasing the number of epochs



✓ **Correct** 1/1 Points

7. **L. Which of the following is a benefit of using batch normalization?** *

- ☒ A) Reduces internal covariate shift and helps with regularization
- ☐ B) Increases the learning rate
- ☐ C) Reduces the need for activation functions
- ☐ D) Removes the need for training data

✓ **Correct** 1/1 Points

8. **E. How does L2 regularization (Ridge Regression) help prevent overfitting?** *

- ☐ A) It removes unnecessary layers from the model
- ☒ B) It penalizes large weights, forcing the model to learn simpler patterns
- ☐ C) It reduces the batch size to improve generalization
- ☐ D) It increases the complexity of the neural network

✓ **Correct** 1/1 Points

9. **F. Which hyperparameter is commonly tuned to prevent overfitting?** *

- ☐ A) Learning rate
- ☐ B) Number of layers
- ☐ C) Dropout rate



☒ D) All of the above

✓ **Correct** 1/1 Points

10. **How does data augmentation help in preventing overfitting?** *

- ☒ A) By artificially increasing the size of the training dataset with variations
- ☐ B) By reducing the learning rate of the optimizer
- ☐ C) By removing irrelevant features from the dataset
- ☐ D) By reducing the number of layers in the model

✓ **Correct** 1/1 Points

11. **G. What is the role of cross-validation in hyperparameter tuning?** *

- ☐ A) To improve the training speed of the model
- ☒ B) To evaluate the model's performance on different subsets of data
- ☐ C) To increase the number of training samples
- ☐ D) To reduce the number of hyperparameters in the model

✓ **Correct** 1/1 Points

12. **B. Which of the following is a sign of overfitting?** *

- ☐ A) High accuracy on both training and test sets
- ☐ B) Low accuracy on both training and test sets



- ☒ C) High accuracy on training but low accuracy on validation data
- ☐ D) Low accuracy on training but high accuracy on validation data

Keep the information with you by saving your response.

Save my response



This content is created by the owner of the form. The data you submit will be sent to the form owner. Microsoft is not responsible for the privacy or security practices of its customers, including those of this form owner. Never give out your password.

Microsoft Forms | AI-Powered surveys, quizzes and polls [Create my own form](#)

The owner of this form has not provided a privacy statement as to how they will use your response data. Do not provide personal or sensitive information. | [Terms of use](#)

