Unit 10 - Week 9

Assignment 9

The due date for submitting this assignment has passed. **Due on 2018-03-28, 23:59 IST.**

Submitted assignment

1) What is the space complexity of a fully connected layer (double precision floating with bias) with 100 input neurons and 10 output neurons?

- ~8 KB
- ~64 KB
- ~32 KB
- None of the above

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**
- ~8 KB

2) What is the operational complexity of a fully connected layer (double precision floating with bias) with 100 input neurons and 10 output neurons?

- ~189 Kb
- ~17 KB
- ~138 Kb
- ~20 KB

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**
- ~17 KB

3) What is the space complexity of a CNN block (double precision floating with bias) with 10 kernels each with channels, height and width being 3, 5 and 5 respectively?

- ~47 KB
- ~46.8 KB
- ~6 KB
- None of the above

**No, the answer is incorrect.**

**Score:** 0

**Accepted Answers:**
- ~6 KB

4) What is the operational complexity of a CNN block (double precision floating with bias) with 10 kernels each with channels, height and width being 3, 5 and 5 respectively?

- ~47 Mb
No, the answer is incorrect.
Score: 0
Accepted Answers:
None of the above

5) Data batch size is determined by?
- Model Size
- RAM Size
- Hard Drive Size
- Both Model and RAM Size

No, the answer is incorrect.
Score: 0
Accepted Answers:
Both Model and RAM Size

6) Which of the following are placed on RAM during training?
- Model parameters
- Model gradients
- Partial data
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the above

7) Which transform is used to accelerate the compute?
- Fourier
- Hilbert
- PCA
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Fourier

8) What technique is employed to introduce domain adaptation in stacked autoencoder?
- Systematic dropout
- Conditional dictionary learning
- Feature sampling
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Systematic dropout

9) What conditions are required for employing domain adaptation
- Existence of common domain
- Ample amount of labelled data in source domain
- Ample amount of labelled data in target domain
- All of the above
1. Domain adaptation has application towards
   - Semantic segmentation
   - Object localization
   - Image classification
   - All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Existence of common domain

No, the answer is incorrect.
Score: 0
Accepted Answers:
All of the above