Session 9 - Assignment QnA

- Due Nov 8 at 7am
- Points 4,000
- Questions 5
- Available Oct 11 at 9am - Oct 18, 2026 at 11:59pm
- Time Limit None
- Allowed Attempts Unlimited

Instructions

Assignment

1. You are training ResNet50 from scratch on EC2 on ImageNet (only done by around 10000 people in the world)
2. You are going to be using credits shared by TSAI for this.
3. References:
    1. Check out this **link (https://github.com/adensur/blog/blob/main/computer_vision_zero_to_hero/08_resnet_imagenet/Readme.md)**
    2. and this dawnbench **link (https://dawnd9.sites.stanford.edu/imagenet-training)**
    3. this **link (https://docs.mosaicml.com/projects/composer/en/latest/tutorials/train_resnet50_on_aws.html)** for something latest
4. You're supposed to use ChatGPT and Cursor heavily for this assignment
5. Before "jumping" into full training, run your model with smaller data on Colab, or on EC2 for lesser time, only once you're sure, proceed forward
6. The target is to achieve 75% top-1 accuracy. You cannot use a pre-trained model, but you can take any repo to train your model
7. Once done, create a live HuggingFace application on HuggingFace Spaces. Share the Actions link
8. You need to share:
    1. A Markdown file with just logs, starting from epoch 1 to the last epoch (wherever you stop)
    2. A screenshot confirming that you have used EC2 to train your model
    3. Share the link to your Hugging Spaces app.

    4. Link to your GitHub code (if submitting in a group, then I should be able to see the push from both members)
9. If you're submitting in a group, mention the email ID of your partner. Both will get the same scores, hence the submission must be the same.
10. Budgets and details:
    1. If working alone, your budget is $25, and if working in a group, it $50.
    2. You'll be emailed your credit code once you email the admin with a fully trainable ResNet50 pipeline. This is the final code that you'd want to run on your AWS EC2.
        1. The email must link to the GitHub repo for us to review the code
        2. The email must explain what your group members are doing, and we should be able to see their commits on GitHub. No commits = No score
    3. You're targeting a minimum 75% top 1 Accuracy (of course, validation). An additional 5000 points if you reach 78%
11. Submission:
    1. GitHub README Link (final code with detailed logs, where we can see accuracy).
    2. HuggingFace Spaces App, so we can test your model (you would be converting the model to a CPU model to run on HuggingFace)
    3. A YouTube Link describing your project, showing demo output (can be a local or HuggingFace demo).
12. Timeline:
    1. Request for CODE
        1. Send email as described above, **before 18th October**. If the email is sent AFTER 18th October, then you'll not be provided with credits and would need to use your own (this assignment is possible within $15)
    2. Final Submission:
        1. With Amazing Work Score: 1st November
        2. With Normal Scores: 18th October 202**6**
13. Scores:

    Reached less than 75%: 0

    Reached between 75-78%: 2500

    Reached more than 78%: 2500 + 5000

    HuggingFace App missing or GitHub README missing or YouTube Video demo missing: 0 in all cases.

    Amazing work: 2500-5000 points.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	222 minutes	2,500 out of 4,000 *

* Some questions not yet graded

Score for this attempt: 2,500 out of 4,000 *
* Some questions not yet graded
Submitted Nov 8 at 3:04am
This attempt took 222 minutes.

Question 1
Not yet graded / 0 pts

Who are your Group Members? Please share their registered email ids.

Your Answer:
Koustav Bose <Koustav.90.bose@gmail.com>
Sachin Tyagi <sachin.tyagi.email@gmail.com>
Smita Sasindran <smitasasindran@gmail.com>
Sunil Jakkaraju <js.sunilkumar@gmail.com>
Correct answer

Question 2
2,500 / 2,500 pts

What is your best Validation accuracy? (If you got more than 81%, your score would automatically be 0. Don't worry, we'll revise it to 2500+5000)

66

Between 78 and 3

Question 3

Not yet graded / 500 pts

GitHub README Link (final code with detailed logs where we can see accuracy).

Your Answer:

Github Repo is present here: **https://github.com/code4koustav/ERA_V4-S9 (https://github.com/code4koustav/ERA_V4-S9)**

Project explanation and structure: **https://github.com/code4koustav/ERA_V4-S9/blob/main/README.md (https://github.com/code4koustav/ERA_V4-S9/blob/main/README.md)**

Training setup for EC2: **(https://github.com/code4koustav/ERA_V4-S9/blob/main/Training-README.md) https://github.com/code4koustav/ERA_V4-S9/blob/main/Training%20Setup-README.md (https://github.com/code4koustav/ERA_V4-S9/blob/main/Training%20Setup-README.md)**

Training logs and observations: **https://github.com/code4koustav/ERA_V4-S9/blob/main/Training%20Notes-README.md (https://github.com/code4koustav/ERA_V4-S9/blob/main/Training%20Notes-README.md)**

Question 4

Not yet graded / 500 pts

HuggingFace Spaces App, so we can test your model (you would be converting the model to a CPU model to run on

HuggingFace)

Your Answer:

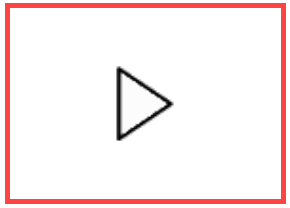
https://huggingface.co/spaces/smitasasindran/resnet50-imagenet (https://huggingface.co/spaces/smitasasindran/resnet50-imagenet)

Question 5
Not yet graded / 500 pts

A YouTube Link describing your project, showing demo output (can be a local or HuggingFace demo).

Your Answer:

https://www.youtube.com/watch?v=Hal5DgwVuEo (https://www.youtube.com/watch?v=Hal5DgwVuEo)



(https://www.youtube.com/watch?v=Hal5DgwVuEo)

Quiz Score: 2,500 out of 4,000
* Some questions not yet graded