Session 3 - PyTorch Fundamentals and Sim Networks

Session 3: PyTorch Fundame Simple Neural Netwo

- **Introduction to PyTorch and Tensors:** Understanding tensors, tensor operations, and PyTc
- **AutoGrad and Computational Graphs:** Mechanism of automatic differentiation in PyTorch.
- **Building Simple Neural Networks:** Constructing basic neural networks using PyTorch.
- **Implementing Training Loops:** Writing loops for training and validating models.
- **Introduction to Gemini:** How to integrate 3rd party LLMs into your apps.

PART 1

Please refer to this **COLAB** (https://colab.research.google.com/drive/14GfJuQxrls552KMH6_V notes), and this **COLAB** (https://colab.research.google.com/drive/1oqlXKiU_m9nAqgo4v5feh notes) for the stuff that we discussed today.

PART 2

Now, let's do some hands on and integrate Gemini into our

Assignment

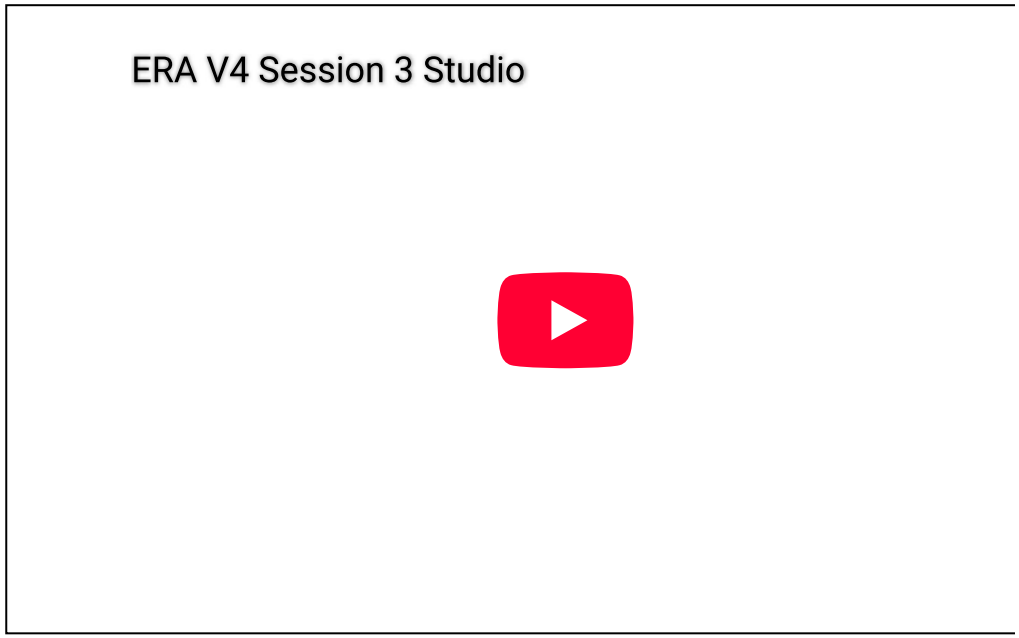
1. Your Assignment is to repeat assignment 2, but this time add Gemini to it. If you had alread new application.
2. You need to host it on EC2.
3. Submission:

1. YouTube Video of your App working
2. Github Code for your App
3. EC2 URL (keep it active till 1 hour after your submission)
4. LinkedIn/X/etc link if shared with the world

4. Have fun!

VIDEOS

STUDIO (**transcript (https://canvas.instructure.com/courses/12597696/files/3**
(https://canvas.instructure.com/courses/12597696/files/310012297/download



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