Core Project

Hi everyone. This is the final project statement that you are required to complete. This assignment will put all the skills you have learnt till now to test. . You are required to complete the following 3 tasks :

- Using your selected pre-trained model, simply evaluate it on the test split of galaxyzoo dataset. (We recommend using the ResNet-50 model from [microsoft/resnet-50 · Hugging Face](#))

- Now, simply finetune the pre-trained model on the train split of galaxyzoo dataset and evaluate it on its test split.

- Finally, finetune the model using LoRA and evaluate it on the test split.

Report the accuracies in all three cases.

Note- Do this assignment on Colab or Kaggle notebook only.

Deadline- 5th November

You can refer to the following resources :

[Fine-Tuning Deep Learning Models with Low-Rank Adaptation (LORA): using Google Colab | by Dr. Sandeep Singh Sandha, PhD | Medium](#)

[Fine-tuning Large Language Models (LLMs) | w/ Example Code](#)

[HuggingFace Crash Course - Sentiment Analysis, Model Hub, Fine Tuning](#)

Feel free to ask any doubts!

We're on a journey to advance and democratize artificial intelligence through open source and open science.