**Fine- Tuning of GPT-2**

1. **Pre-Tuning (pre\_train.ipynb):**
   * Import open-source gpt-2 and its tokenizer through Hugging Face through Transformer.
   * Sent the question from our dataset one by one. They will generate data according to it is trained on.
   * Save the output in excel sheet(pre\_train\_response.xlsx).
2. **Fine-Tuning (train.ipynb):** 
   * Import open-source gpt-2 and its tokenizer through Hugging Face through Transformer.
   * Import dataset through pandas and combined question and answer separated with “ [SEP] “ token.
   * Initialize the training argument like no. of epochs, output directory according to your need using Training Arguments class by transformers.
   * Train the GPT-2 on our dataset using “Trainer” class provided by Hugging Face.
   * Save the fine-tuned model using save\_pretrained() function in local.
3. **Post-Tuning(post\_train.ipynb):**
   * Import Fine-Tuned gpt-2 and its tokenizer which we have saved locally using function like from\_pretrained() functions.
   * Sent the question from our dataset one by one. They will generate data according to it is trained on.
   * Save the output in excel sheet(post\_train\_response.xlsx).