**Road-Map for Predictive Chat-bot**

1. Extract train and test data provided by Evolent

2. Finetune (Transfer Learning) the “bert-base-uncased” model on our data to create a classifier.

3. Push/Upload our custom classifier on Hugging Face hub with Name id = **“aipradeepd/Evolent\_BERT\_Classifier”**

4. Test the model in Langchain environment

5. Create a Chatbot using chainlit

every time Doctor enters a ABSTRACT, then model take it as input and send that text to our custom model **aipradeepd/Evolent\_BERT\_Classifier** which is at huggingface hub. The model will classify the abstract and respond its correct class. This responce we will send in chat window.

**Challenges:**

The challenge that i have faced is retraining.... I wanted to train BERT on my custom data. The data is too large so that my local machine shows kernel dead everytime.

Tried google colab which provides 12GP GPU for free. Even colab got crashed during traing. So, this finetunning process is much leangthy as we are having Millions of training records. One may need considerable infrastructure for this.

**Note**: As the model is not trained properly, you will see insufficient files on Huggingface Hub for **aipradeepd/Evolent\_BERT\_Classifier.**