**IITD Machine Learning-01(chatbot)[INTP23-ML-1]**

**Day 31:**

On day 31, of IITD-AIA FSM internship, I applied Transformer.

**Learning:**

Today I learnt about BERT, how it has two steps for getting output, first is Pre-Training which includes further two steps MLM (Masked Language Model) and NSP (Next Sentence Prediction), this step includes

* return token embeddings
* do positional Encoding
* pass to BERT
* Output word vector for MLM and binary value for MSP,
* Word vector passed into Softmax layer

Then there is Fine tuning model, it uses model weights for pre-training phase, how BERT will understand answer/language/sentiment. There will be supervised Learning and hyper parameter training for getting good accuracy.

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**Work Done/learning Implemented:**

Today, I tried to update my json file by entering question along with context and fine tuning the model, and increased the epochs from one (1) to three (3). And, also increased the test context by adding more information to it and asked some other questions like “Tell me something about Internship?”, “what is IAFSM??”, etc.

**Is Progress As per Track?**

Yes, I applied Transformer.

**Issues Faced Today:** output length is very small.

**Issues Closed Today:** (None)

**Highlights:**

Today, I applied Transformer with respect to IAFSM context.

**Concluding the day:**

So today, I learnt about deep learning concept of Transformers.

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