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

**Day 28:**

On day 28, 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:**

Yes, using ROBUSTA, I implemented concept of Transformer using SQUAD dataset and I provided small context of IAFSM and asked questions. I provided small and short answer but correct.

**Is Progress As per Track?**

Yes, I applied Transformer.

**Issues Faced Today:** small errors in code

**Issues Closed Today:** solved, errors from yesterday’s code, also run the small context and its’ answer.

**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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