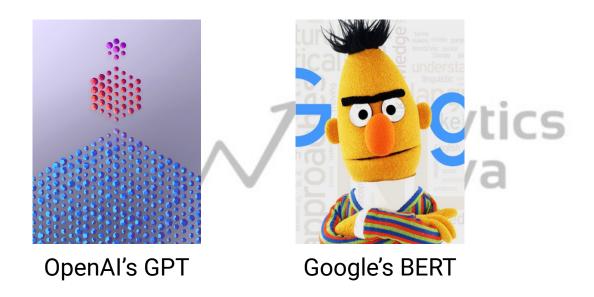
# Introduction to BERT









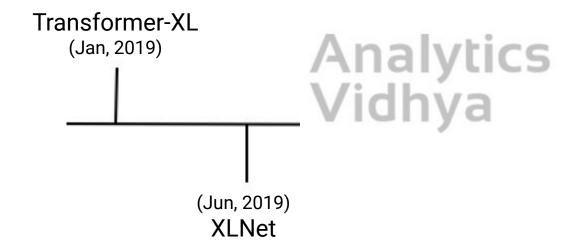




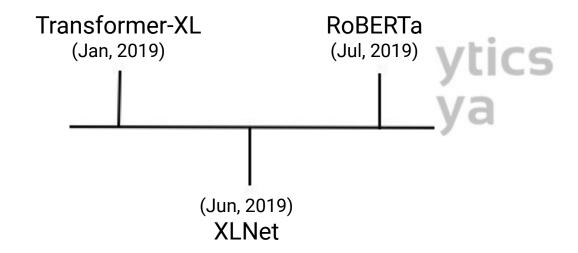




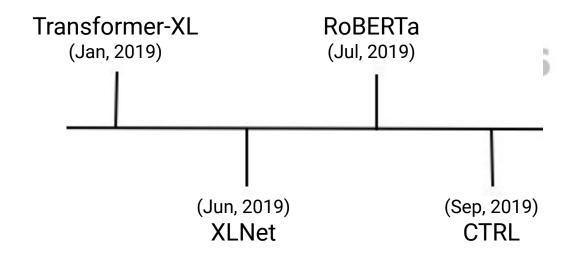




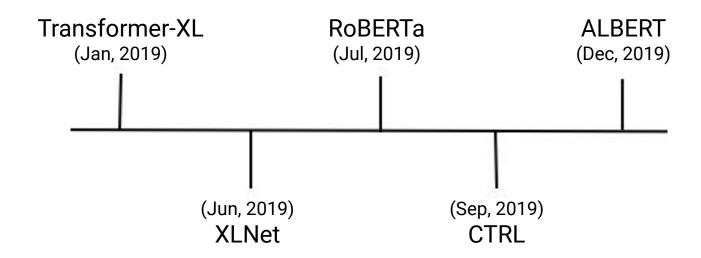














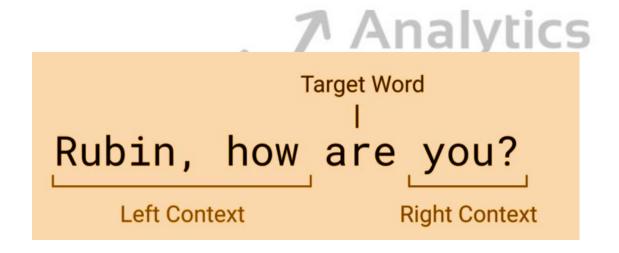
 BERT - Bidirectional Encoder Representations from Transformers

**Analytics**Vidhya





 BERT - Bidirectional Encoder Representations from Transformers







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- **BERT** Bidirectional Encoder Representations from **Transformers**
- BERT is pre-trained on a large corpus of unlabelled text
  - Wikipedia(that's 2,500 million words) Book Corpus (800 million words)





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- **BERT Models:** 
  - BERT-base (12 Encoder Stack)
  - BERT-base (24 Encoder Stack)





## Performance of BERT

#### GLUE (General Language Understanding Evaluation) Benchmark

 It is a collection of datasets used for training, evaluating, and analyzing NLP models relative to one another

Rank	Model	Score	CoLA	SST-2	MRPC	sтs-в	QQP	MNLI-m	QNLI	RTE
1	BERT: 24-layers, 1024-hidden, 16-heads	80.4	60.5	94.9	85.4/89.3	87.6/86.5	89.3/72.1	86.7	91.1	70.1
2	Singletask Pretrain Transformer	72.8	45.4	91.3	75.7/82.3	82.0/80.0	88.5/70.3	82.1	88.1	56.0
3	BiLSTM+ELMo+Attn	70.5	36.0	90.4	77.9/84.9	75.1/73.3	84.7/64.8	76.4	79.9	56.8



Generate Text Embeddings





- Generate Text Embeddings
- Text Classification





- Generate Text Embeddings
- Text Classification
- Named Entity Recognition Analytics Vidhya



- **Generate Text Embeddings**
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