* Natural language Processing * New Natural language processing is a subtield of linguistics, computer science and artificial intelligence concerned with the interactions between computers and human language in a particular how to program computers to process and analyze large amounts of natural language neuropsychology; linguistics and philosoph of language, a natural language or ordinary language is any language that has evalved naturally in human through use and repetition without conscious planning or premeditation. Natural languages can take different forms such as speech or signing. They can distinguished from constructed and formal languages Such as those used to program computers or to study looic. Applications in Contextual . Advertisements ii. Social media - remaving adult content, opinion mining iv. Search Engines

v. Chatbots.

2.	Machine learning Appenach
- 7	The first many and was ready again, and the same
	The Big Advantages:
	Used for open rended problem in VIE
	The Big Advantages: Used for open-ended problem in NLE
	ML Workflow: Converts textual Data into numbers or vectors
	Algorithm Used: Algorithm Used: 1. Naive Bayes 2. Logistic Regression 3. SVM
	Algorithm Used:
	2. Insistic Dances
	O SUM
_	1 100 (T : M 1)
	4. LDA (Topic Modelling).
_	5. Hidden Markov models.
3.	Deep learning Approach
	On NI Land City Smart
	11% D1.46 - Le A ACI
	1. Retains Sequential intermation of Sentence
	2. Feature Generation is Automotic.
	Architectures.
9 1	2. LSTM (Understand long Sentences)
	2. LSTM (Understand long Sentences)
	3. GRU/CNN
	4. Transformers
	5. Auto encoders.
	THE PROPERTY OF THE PROPERTY O
*	challenges in MLP:
•	Charlenges In Title
	1. National and the state of th
	To a later l
	I saw the boy on beach with my binoculars. I have never tasted a cake quite like that one
	have never tasted a cake quite like that one
	before.

2. Contestual Words	pal painted Toulsel		
I ran to the store become	ause we you out of milk.		
	man place the part and		
3. Colloquialisms and Slang			
Proce of coke pulling	HOUX CONTRACT IN		
3. Colloquialisms and Slang Piece of cake, pulling	which otrang		
4. Synonyms	Marshm Wood		
0 0	St 2016 1 - 10		
5. Irony Sarcasm and +	onal difference		
5. Irony, Sarcasm and tonal difference That's just what I needed today!			
Logic Modellings	-) AGL JO		
6. Spelling Errors	ashbill -3		
. 0			
7. Greativity	wassel prime and a		
Paems, dialogue scripts			
<u> </u>	Fig. Advantages		
8. Diversity of	enioted in the toins		
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