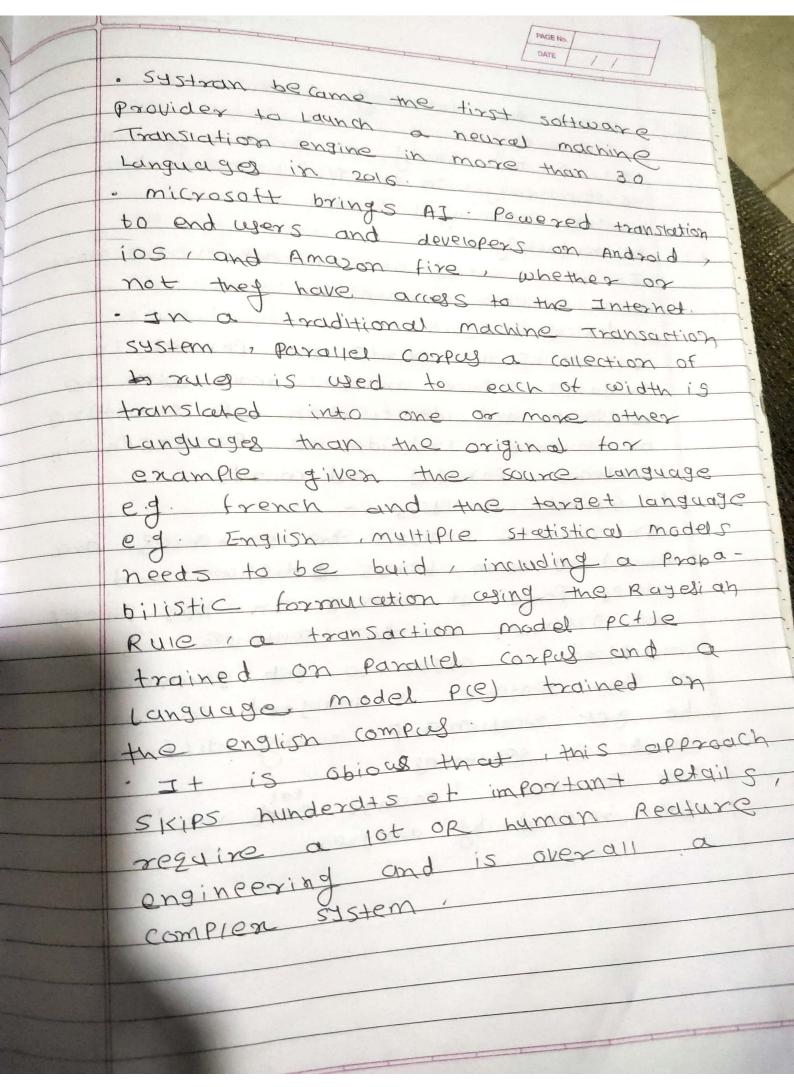
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| | | Assignment No: 01 A |
| | Name :- | Ankita Shridhar Digaskar |
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| | t. single agent |
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| 9.2 | Enfidin various deman |
| 11. 2 4-1. | Explain various elements of congnitive |
| > | Congnitive Company |
| | of computing with the goal of more |
| | brain / mind course |
| | mina senses, reasons, and seemed |
| | co stringing. Generally the learn |
| | congnitive computing is wed to reter |
| | to new hardware and for software |
| | that mimic the following functioning |
| | or the human brain there by improving |
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| | Following are elements of cognitive |
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They may also interact with other Processors, devices and clayd services as well as with People. b. Adaptive: - They may be engineered to feed on dynamic data in real time. They may learn as information changes and as gods and requirements svolve . They may resolve ambiguity and tolerate unPredictability behaviours C. Contenual: - They may understand, identify and entract contexual elements such as meaning syntax, to cation appropriate domain retain d. Iteractive and stateful -They may wid in defining a problem by osking questions or finding additional source input if a Problem statement is incomplete.

write note on language model. The goal of a language model is to compute a probability of a token (ex a sentence or sequence of words) and are welve in many different NPL applications. · Language model (m) actually a grammar at a language as it gives the Probability or coord that will follow. . In case of (Im) the Probability of a returne of sequence of wards is: P(W) = P(W1, W2, W3, ---. Wn) · It can also be used to find the probability of the next word in returten. P(WS/WI, WZ, WZ, W4) - A model that computes either or these is language model . There are various Language model available, a few are. a) methods asing markov assumption: -· A Process which is stochanstic in nature is said to have the markor Property if the conditional probability of Return States depends upon present state. b) N-gram maders: from the markov Assumptions, we can formally define models where K = n-1 as following :-P(W1/W1 W2 --- - Wi-1)

C) unigram model (K=1);-P(wiw2 · · · wn) - TI p(wi) d) Bigram model (1<=2):-P(wilwiwz --- wi-i) = p(wi/wi-1) $(\omega_1/\omega_{i-1}) = (ount(\omega_{i-1}-...\omega))$ 94 write a note on machine Transaction + machine Translation is classic test of lunguage understand. It consists of both language analysis and generation many machine translation system have huge commercial use tollowing are for the examples: · Gogle Translate god through 100 billion word per day · eary use machine transtation techniques to enable crossborder trade and conned buyers / Salers around globe. · Facebook wes (MT) TO translate tent in post and comments automatically in order to break language barries.



Q.5 Enplain the following terms ia) Phonolegy i-3+ is the study of organizing sounds systematically in an NLP (natural ranguage budgessing) system. - ; Keolay brow (q It is a study of constrution of words from Primitive meaningful units. c) dexical Analysis; -Lexilon is the words and phrase in Language. (exical analysis deals with the rewantion and identification of structure of sentences. Individes the paragrashsin sentence, phrases and words. d) Syntatic Analysis :-In syntatic Analysis the sentences are Parsed as hour, verbs, a dietike and other Parts of sentences - In this Phayer the grammer of the sentence is andleyzed in order to get grammar or the sentence is analyzed in order to get relation ship among diffrent words in sentences. For enample, " mango each me" will be rejected by analyzer

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