01/07/2020 Natural language Processing	
I deeplearning aid Natural Language Processing with classification and Vector Spaces:	n
WEEK-1: Vocabulary & feature Extraction	
to Sentiment Analysis with logistic Regression	
→ Supervised ML & Sentiment Analysis	
-> Supervised ML (training) Parameters	
Features -> Prediction -> Output -> Cort output 9 (X) Junction (3) Label Y	
Labels Will for the first for	
-> Sentiment Analysis Tweet: I am happy because I am spositive:	
leaving MLP. Degative	i C
Logistic Regression	
Decame I am -> X -> Train -> Classify -> Positive :) Learning NLP LR	A THE PARTY OF THE
	YA

ALDIM CA

vocabulary & Feature Extraction I am happy because I am - vocabulary: learning rich Tweets: [tweet_1, tweet_2,..., tweet_m] ? I hated the movie V=[3, am, happy, because, learning, NLP, whated, the, movie] -> feature Extraction: · I am happy because I am learning NLP. [3, am, happy, because, learning, HIP,..., haved, 1 the movie] · A lot of zeros! That's a sparse supresentation. & Problems with sparse supresentations I am hoppy because I am learning MLP 12000SI [0,0,0,0,...,0,...,0,0,0] [00,0,02,..., on] - Large Training time 2. Large Prediction time U= 11 2020/7/1

Megative of Posit	ive frequ	mencies	
-> Positive and Her	garine con	uts o	
corpul Lappy bec	awe I am	Learning MLP	vocabulary am happy be cause
I am happy I am sad, I I am sad	am not be	anning NLP	Leaving Ner Mad not
I am happy be cause I am happy	3 am leas	ming HLP	vocabulary Postrea am 3 happy 2 because learning 1
S am sad, 3 o 2 am sad	un not leas	ming NLP	vocabulary Heggra Tocabulary Heggra Tocabulary Heggra Amply Tocabulary Heggra Tocabu
-> mosed frequency)		MLP () 1 Mad 2 Not 1
vocabulary an happy became learning NLP sad not	3 3 2 1	Negfreq (0) 3 3 0 0 1 1 2	freques: dictionary mapping from (word, class) to frequency