* Local Binary Patterns (LBP) Is a type of visual descriptor used for dansification. - It's known to be a powerful feature for texture elassification, also, further when combined with took adveriptor it improves the detection performance considerably son on some datasets.

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Security Space (Section Space S	· Conapt
and the state of t	· Condi
	LBP teature vector is created in the
and the second second	tolldwing manner.
1	→ Divide the examinadismodos into
	cells leg 16x16 pri for each cell)
- 10 × 1	
	- For each pixel in a cell, compare
	the pixel to each of its & neighbours
	100 CE (DATE - TOO POLL - WINDER TOOK halls
	sight-top etc) Follow the pixel along
	a d'ale, i.e. alockwise or counter-clother
	Land V V V
	> where the center pixel's value is
	greater water floo nonthouse to walk
	Limited Discourse of the second of the secon
	gives are 8-digit bing the militable
	Liver of is illustration to the
1 Dear Late	deemat for convenience)
	of the frequency of each number occurring (ie, each combination
1:	of the frequency of each member
4.1	occurring fee, dack combination
	of which pixels as smalls and
* - 100 * 100 × 1	who we will be a a be a train who and her
1	The histogram can be 10001 as 212-
	dimensional feature metor
	-> Optionally normalize the histogram

concatenate (normalized) histogram of all cells. This gives a feature nector for the entire window This feature vector can be used Inachine clarification usurgany tractione leaving algorithms of face recognition or texture onalysis. # Bag of Visual Words * Commonly wed in image classification + adapted from information sutsienal and the bag of words (BOW), we count the number of each word appeals in a document, use the frequency of each word to know the requords of the document, and make a frequency of course word to histogram from it we treat a document as bag of words. * Putting the same sous concept, we use image features as the "words

Page No. Bag of visual words (BOVN) is to × as a let of feets diephesent an image features consists and durintol Keypoints > "stand out" or uniques of Scotation, should or expansion, their stays the Descriptor 2) description of the * We use the keypoints and descriptors. to construct socabularies and Supresent each images as a brow are in the mage Derom this, we find another similar timages or predice the category of the mage. * Building a BOVW: from each image in the dataset, and build a visual dictionary.

West, we make a cluster from the obscriptors (k-means, DBSAN, etc.) The center of each cluster will be used as the virual dictionarys vocabularies. make a frequency histogram from the vocabularies and the frequency histograms are our sag of visual words By Using BOUN representation we I can l'aonipute this magis neavest. neighbours. We can doit luing novert neighbours algo or any other also