duestion-1:

such an arcehitecture can not persteetly classify all of the training enamples. As we know, convolution, layers are linear. therefore, any layer composition made out of linear layer is still linear. Assume out inputs are 16 dimensional binary veldons, and we wish to discriminate between two ratterors A and B, that may be arranged in any conceivable translation . if we change the pattern to the right whatever falls on the right side will fall on the left. As a class has la eagess by A and 16 nesult, our enamples of B that our classifier need to distinguish if our classifier is to cornectly identify all 16 cases of A, it must also classiff the average of all 16 occurrances as as A. Because four out of sinteen vatures are

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active, the average of all instances is the rectors (0:25, 0:23:;; 0:28). Similarly forc it to correctly disciss our 16 instance of B it must also classify their average of Bi since this needoor can not possibly be Classified as both A and B. this dataset must not be linearly separable. In general, no linear classifier can be expected to discover q pattern in all potential translation. This is a significant drawback of using classifier as the boundation for a visual system. Therefore, above maentioned arrelitecture ean not persectly chassify all of the training examples.

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