-> Colon-mode function has default value

'RGB' grayscale should be explicitly

mentioned. All pre-trained models have to be worked in 3 charmels (RGB) to if it is grayscale image 128 x 128 ) their it'll be 12x128x1, 128 x 128 x 1 and 128 x 128 x 1. \* TRANSFER LEARNING to your dataset, \* AUTOENCODERS > when share are 100 features, autoento-dens extract useful pingoulant, eatures. > 3 components: 1) A Encoder (2) Latent Space | Code (3) Decoder > It is wainly used for extendion of generalization of generalizat > Fucoder works exactly like CNN till
flatten layen.

> works on both structured of unterectured
data. order to scale down the us of important features. of the fixed bize to which you wednesd. Jeatures and reduce the dimension ality of the dataset PCA PCA can only work on stunct wied data while Encoder can would on both. > Decoder only reconstructs the data back to original size only by the with the most important features peresent in encoded part (latent space). you have a features: House address, House anea House color, etc. The most important is House address, so this can be ver toustimided as street, week, total can be ver toustimided as street, were total

Page No. N & L M > Rhypes: Der omplete NYM over complete is in efficient Because it topics eredundancy. The newson leavest features can be neglected Fucoder math;

encoder math;

encoder

H = X & We > Fucoder

b input matrix > Tied - State assumption We = WLT ou vice - veusa. tw) = auguin WX - X V2 4 with respect to w. X'= HWd We= WJ. f(w) = auguin w 11x - x 11<sup>2</sup> H= X We Computation Autoencoders L variational L GrAN's