

# Special Session

→ kaggl.

Dataset : Flickr 8K data set.

## # Adding Constraints

- Caption length < specified length.
- Mapping caption with image.

RoboFlow:  
Best CV platform

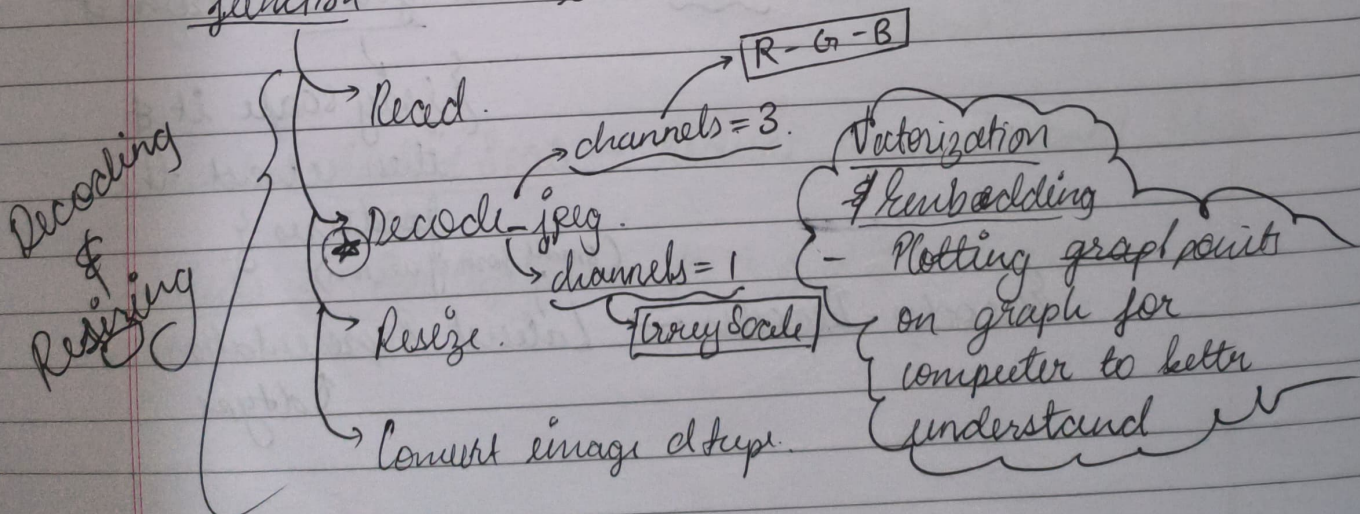
## # Vectorization:

Vectorizing the text data

- Make lower case
- Remove unwanted chars.

Dataset

Pipeline → ~~Conti~~ Accessing data from a  
function external source





- Shuffle → • Shuffling the input sequence.
- Decode.

## OVA - RIZE TIME

- Alpha 3 Fold :
- Generate protein by the model is accurate or not.
  - Predicted 3000 protein synthesis

## Vic & Vrusht Text Vectorization

Task : Other types of Vectorization.

## # Building Models {CONVOLUTIONAL NEURAL NETWORK}

- Models used : CNN - Extract features from it.

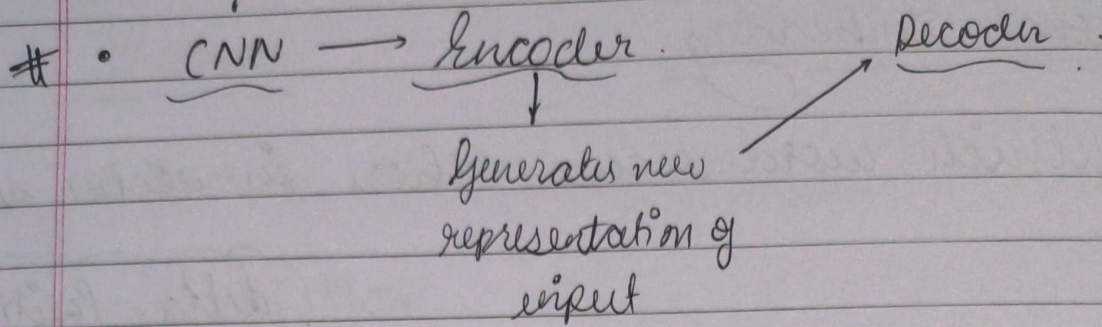
{ Grag scale it & then extract the features }

(small form of vectors).

Encoder - Decoder → Latent Representation  
↑ type.

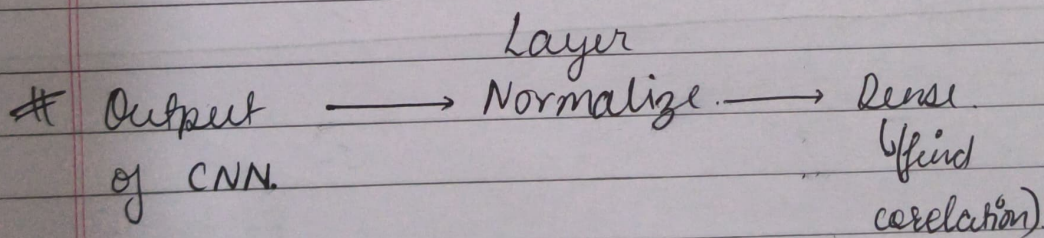


\* Efficient Net → optimum results for CNN layer.



### Terminologies

- Dense → Find Relation between the any two elements.
- ReLU Activation func → Grading system for Dense layer.
- Attention → Actually helps machine to understand the important elements in a sequence
- Normalization → Reduce dimensionality of any sequence to a wanted range  
eg. (255) ~~255~~ <sup>between</sup> → (0, 1)



Embed • Embed Scale → Reduces computational time.

- Beas : ~~Pre~~ Preference for a specific condition



## # Positional Embedding

- Which word occurs where in vector space

delta = Position  
should remain  
in which range.

## # RIZZ - SHABH

- How to determine optimum Learning Rate -

• Learning Rate :

- Rate at which the global loss minima is reached.

ADAM: What should machine do to reduce the loss.

# How to choose a L.R.

- Sum squared error of every learning Rate.

#

## # Decoder

Positional Embedding → Decoder Block



# WORKING

- Adding Attention in decoder Block
- Casual Mask
  - Relation between two element
- Normalization
- Feed Forward Neural Network

o Calligraphy

Augmentation : Make changes in image.

Basically, ~~the~~ make changes so that the model don't learn that image too well.

Task :

OVA-RIZZ - ROUND - 2

Replace GPU with Optical fiber.