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Challenge

Team EarlyNeverStopping

How our method works?

- Train VAE network with all images and all classes provided
- Downloaded milkyway data as test data
- To find closest match :
 - Find euclidean distance between test data and trained data in the latent space
 - Hypothesis: The closest neighbour is the closest match
- To generate new image:
 - Sample data points around the matched latent variable and use decoder to generate new image



Performance of the model

Input



Reconstructed



Performance of the model

Input



Reconstructed



Visualization of latent space



Distance in L space + our winner

- Euclidean distance in 8-dim
- Histogram classwise distance
- See bit of clustering going on



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Image #4497 @ distance = 1135



Examples of the generated images





Examples of the generated images

