## **Encoder Architecture** Mean Conv Dense Dense 2 \* Leaky Leaky Reshape 14 X 14 X 16 32 28 X 28 X 1 16 Filters 3136 32 (batch,-1) ReLU ReLU z\_dim Kernel 3 X 3 Units Units Stride 2 X 2 Std **Decoder Architecture** Normal(mu, sigma) Mean(m) Deconv Dense 14 x 14 x 16 28 X 28 X 1 Dense Leaky Leaky 3136 32 Z 3136 Sigmoid Reshape 1 Filter 32 Units ReLU ReLU Units Kernel 3 X 3 Stride 2 X 2 Std(sigma) Dense Softmax Class Label Predictions Units