M22ai608-Frey Face-AE-q2

Implementing variational Auto-encoders:

1. Import Libraries and Load the dataset
2. Convert the data to PyTorch tensors
3. Define the Variational Autoencoder class
4. Create the VAE model with embedding vector size 20
5. Define the loss function and optimizer
6. Train the VAE model
7. Generate samples from the VAE model
8. Visualize the generated samples

Finally,
Run the filename (M22ai608-Frey Face-AE-q2).py

References: Face Image Generation using Convolutional Variational Autoencoder and PyTorch
Face Image Generation using Convolutional Variational Autoencoder and PyTorch (debuggercafe.com)