type of (LikePCA)

↗ Dimentionality
  reduction

# ML terms

- Auto encoders: a type of NN used for unsupervised learning. They work by compressing the input data into a lower dimention representation (encoding) and then reconstructing the original input from this compressed representation (decoding). The model is trained to minimize the difference between the original input and the reconstructed output.

- GAN (Generative adversarial network): are a type of NN designed to generate new data that resembles the data they were trained on. They consist of two networks: a generator which creates new data and a discriminator which evaluates the authencity of generated data. The two networks are trained in a adversarial process where the generator tries to fool the discriminator and the discriminator tries to distingush between real and generated data. This leads to both to be improved.

- Explainable AI (XAI): Focuses on making ML models and there decisions andersandable to to humans insted of treating models like black boxes, is to understand models logic