Normalizing Flow

In a nutshell, given examples from a distribution
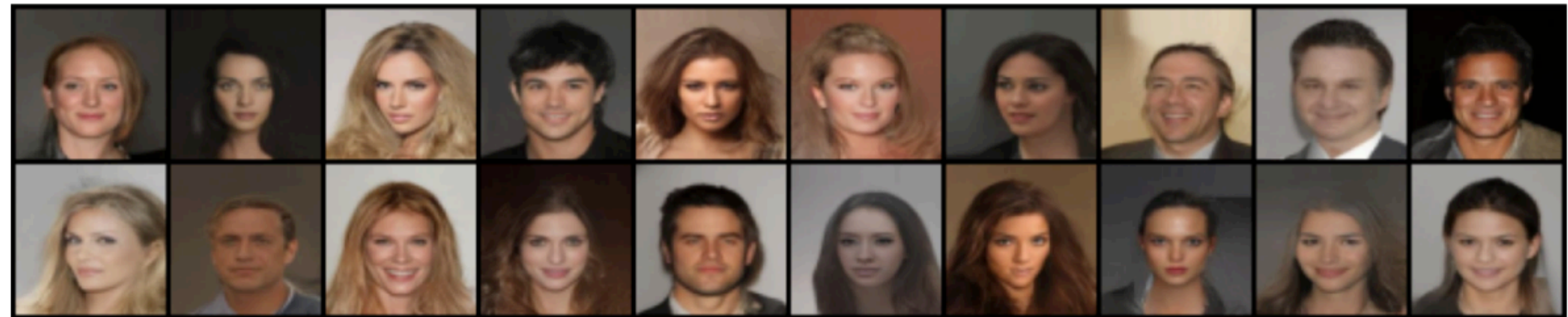
$$\{\mathbf{x}^{(i)}\}_{i=1}^{i=N_{train}}$$

$$\mathbf{x} \sim p_{faces}(\mathbf{x})$$

create new samples from the distribution…

$$\mathbf{x} \sim p_\theta(\mathbf{x}) \approx p_{faces}(\mathbf{x})$$

plus more capabilities…

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Normalizing Flow

A density estimation algorithm that learns complex distributions by ***mapping*** them to a simple distribution.