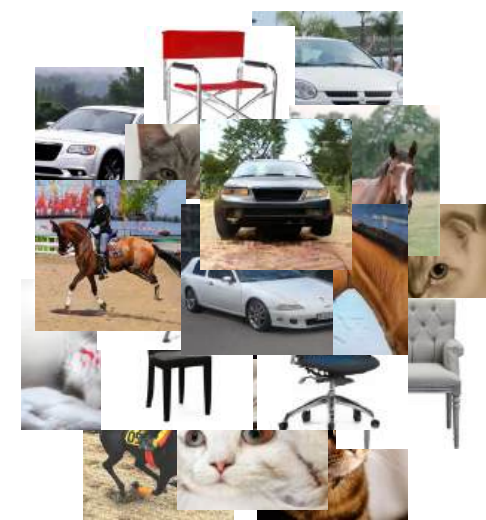
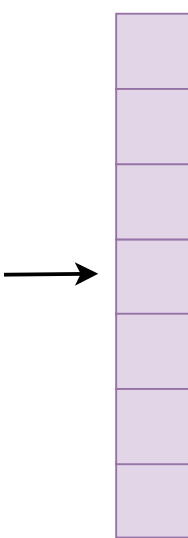
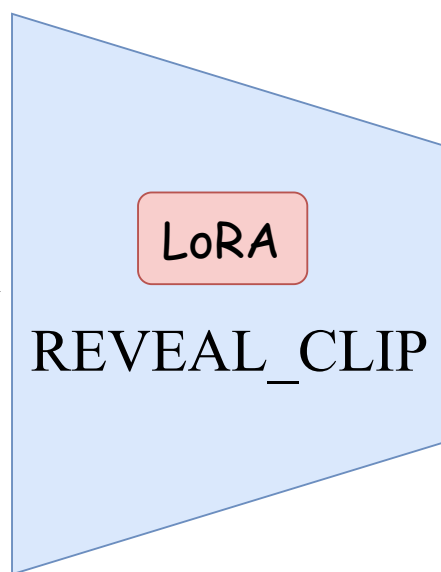


## Vector Database



4-class setting  
ProGAN



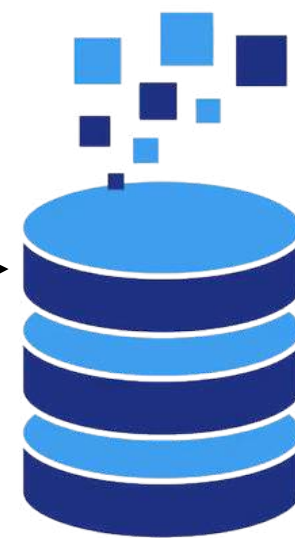
Embedding

+

REAL

FAKE

label



$sim(\mathbf{f}_{embed}, E_i)$

$$I = \operatorname{argmax}_{I_i \in C} \operatorname{sim}(\mathbf{f}_{embed}, E_i)$$

$$\operatorname{sim}(\mathbf{f}_{embed}, E_i) = \frac{\mathbf{f}_{embed} \cdot E_i}{\|\mathbf{f}_{embed}\| \|E_i\|}$$

2

K Retrieved Images



REAL



FAKE



REAL



FAKE



FAKE

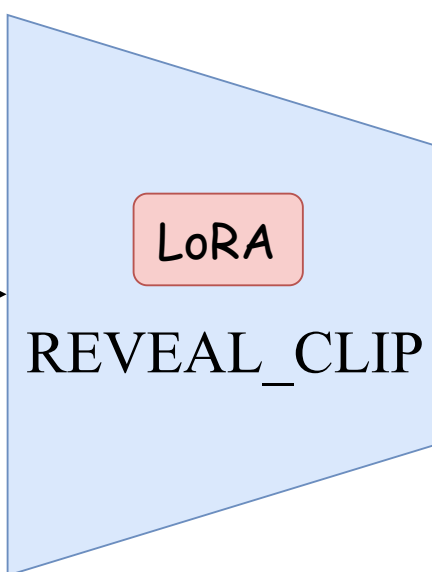
Max Voting

Output

FAKE

1

Query



$\mathbf{f}_{embed}$

