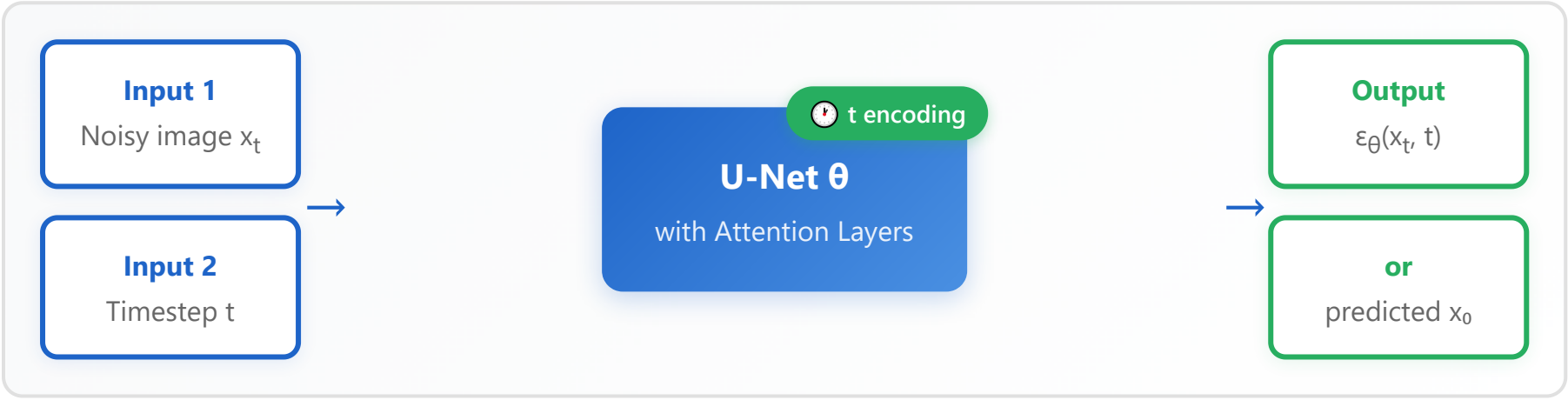
Neural Network Parameterization

Part 3/7: Reverse Process



Mean Prediction

$$\mu_\theta(x_t, t) = 1/\sqrt{\alpha_t} \cdot (x_t - (1-\alpha_t)/\sqrt{(1-\bar{\alpha}_t)} \cdot \varepsilon_\theta(x_t, t))$$

Variance

σ_t^2 (Fixed or Learned)

Reverse Transition Distribution

$$p_\theta(x_{t-1}|x_t) = N(x_{t-1}; \mu_\theta(x_t, t), \sigma_t^2 I)$$