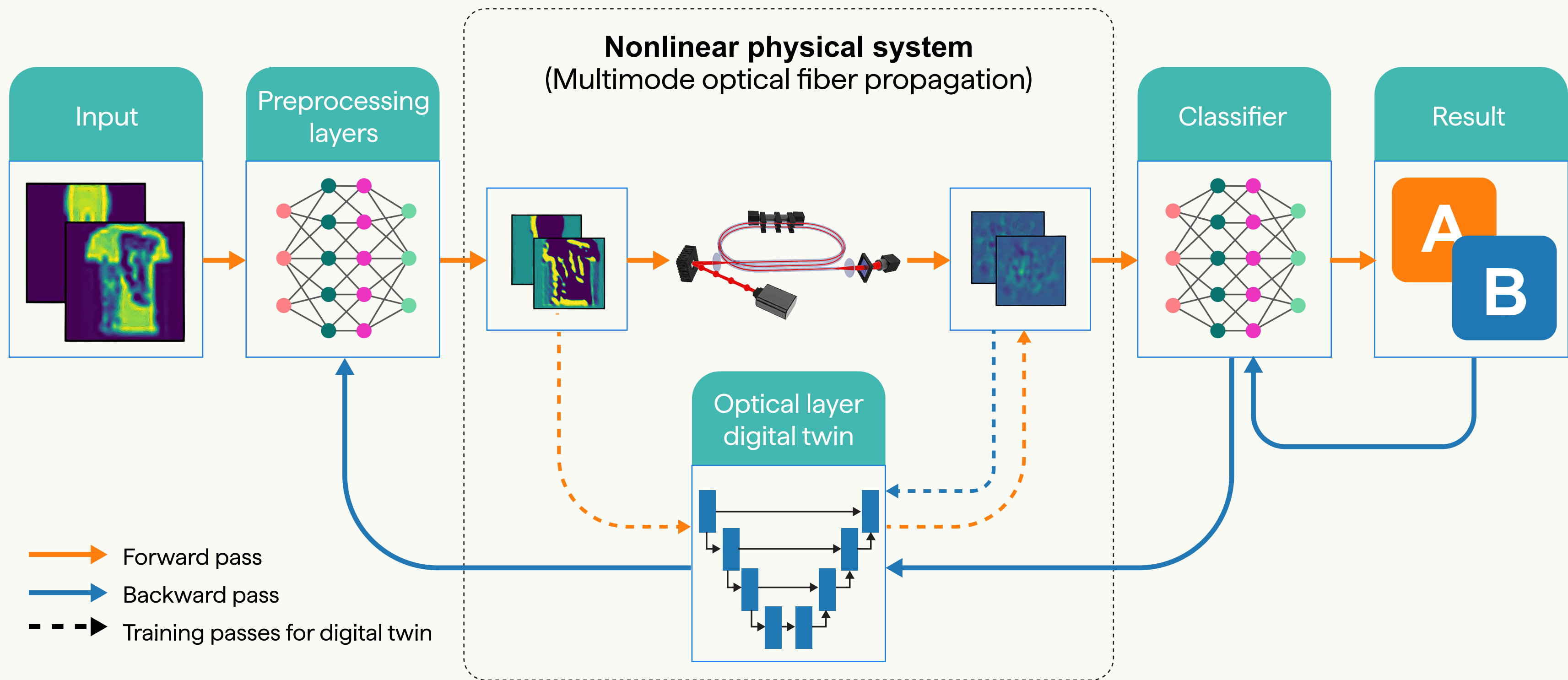
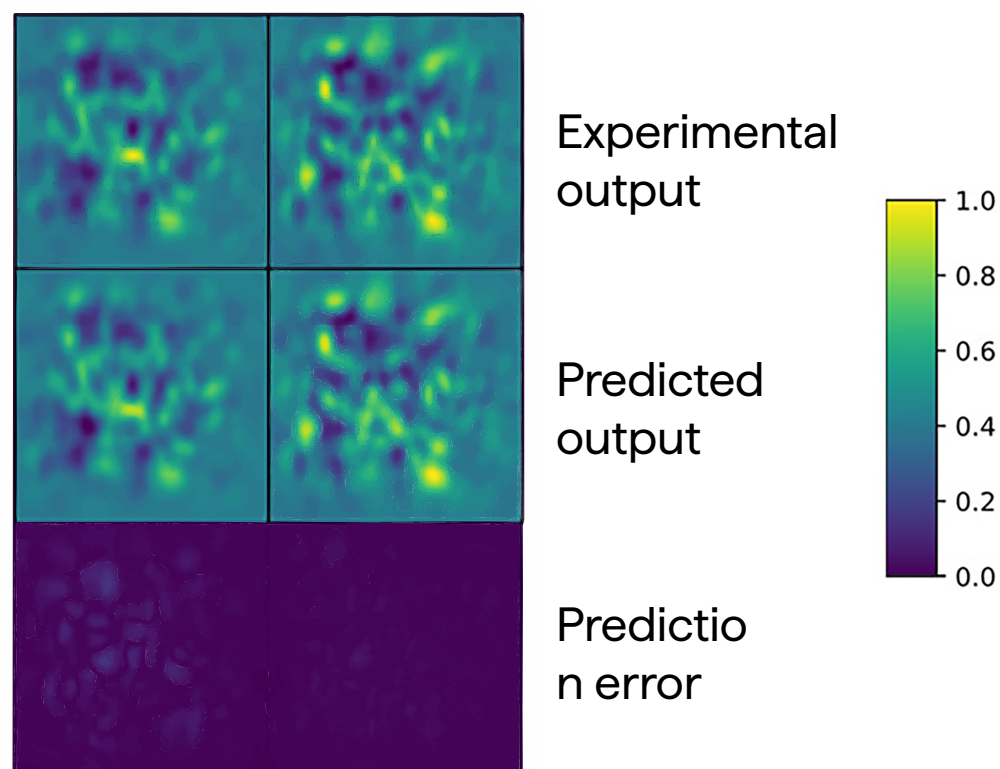


Incorporating a nonlinear physical system as an efficient computation module in a neural network

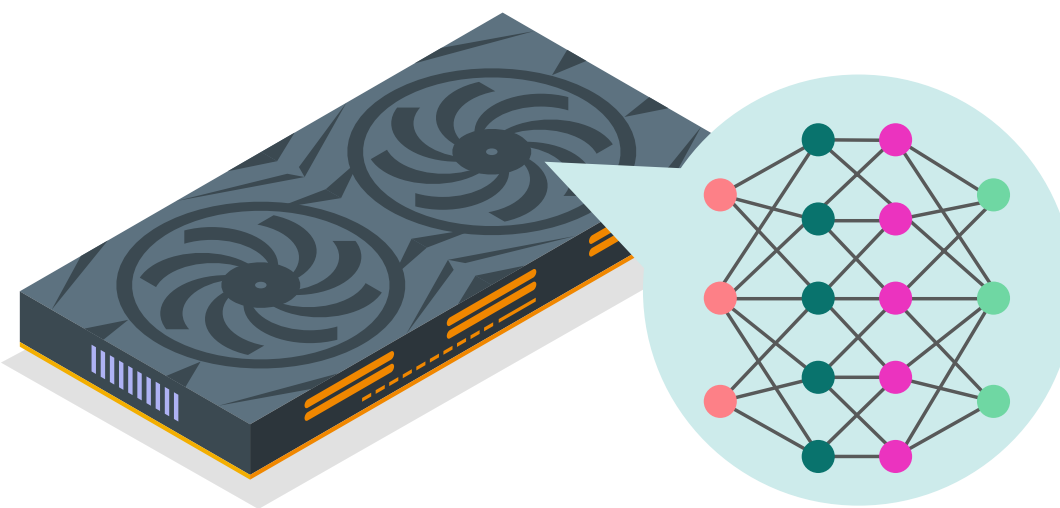


High classification accuracy and simulation fidelity



Computationally efficient

70 million parameters
30 ms on RTX 3070Ti GPU
SNR \approx 100



Resistant to experimental drifts

Tested via mechanical perturbations on optical fiber

