FCNN - FaultDetectionB XGBoost Surrogate  $R^2$ : 0.72 ± 0.11 0.9 RMSE:  $0.10 \pm 0.02$ MAE:  $0.07 \pm 0.01$ 8.0 0.7 **Predicted Accuracy** 0.6 0.5 0.4 0.4 0.5 0.9 0.6 0.7 0.8 **Actual Validation Accuracy**