Model Comparison on CICIDS2018 Dataset

Accuracy

Model	Score
Hybrid CNN-LSTM (Ours)	87.48%
Stacking Ensemble	86.83%
Weighted Voting	85.93%
LSTM only	87.13%
CNN only	82.79%

F1-Score

Model	Score
Hybrid CNN-LSTM (Ours)	81.35%
Stacking Ensemble	80.39%
Weighted Voting	78.10%
LSTM only	80.77%
CNN only	76.01%

AUC-ROC

Model	Score
Hybrid CNN-LSTM (Ours)	93.06%
Stacking Ensemble	93.02%
Weighted Voting	92.21%
LSTM only	93.18%
CNN only	88.87%