

# Unleashing the power of prediction to proactively scale control plane components

INTUIT



KubeCon

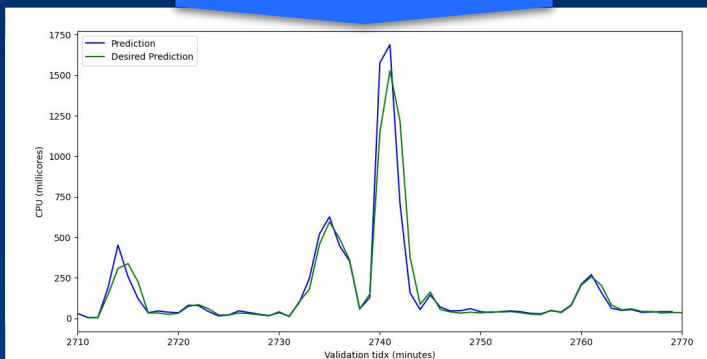
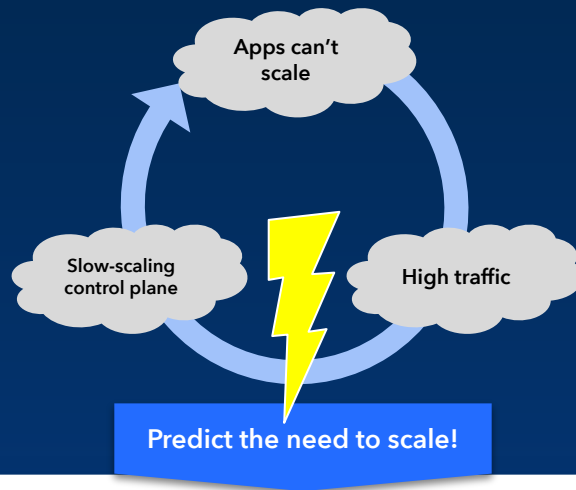
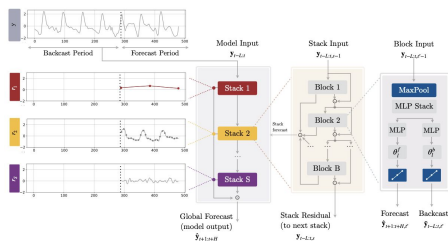


CloudNativeCon

North America 2024

## ML Model: NHITS

- Low computational cost and data volume required
- Automated hyperparameter tuning
- 7 minutes from ingesting data to final model



## Deployment strategy



Train a new model every 24 hours



Push the model to Kubeflow



Call the model with live data



Report prediction to Prometheus



HPA uses the prediction as a metric for scaling