

# Offshore Riser ML Prediction System

Executive Summary | Run ID: 20251208\_145702

## 1. Key Performance Indicators

Metric	Test Result	Target / Status
Circular MAE	1.5171°	Lower is better
Accuracy @ 5°	94.60%	> 90% (Target)

## 2. Performance Narrative

The optimized **ExtraTreesRegressor** architecture achieved a test CMAE of **1.5171°**. The model shows **strong performance**, suitable for general operational guidance, though edge cases may require review. Please refer to the Technical Deep Dive document for granular error distribution analysis and hyperparameter sensitivity plots.

## 3. Critical Diagnostics

