

# Cross-Validation Report for Qwen 2.5-32B

Analysis date: 2025-03-21 13:04:22

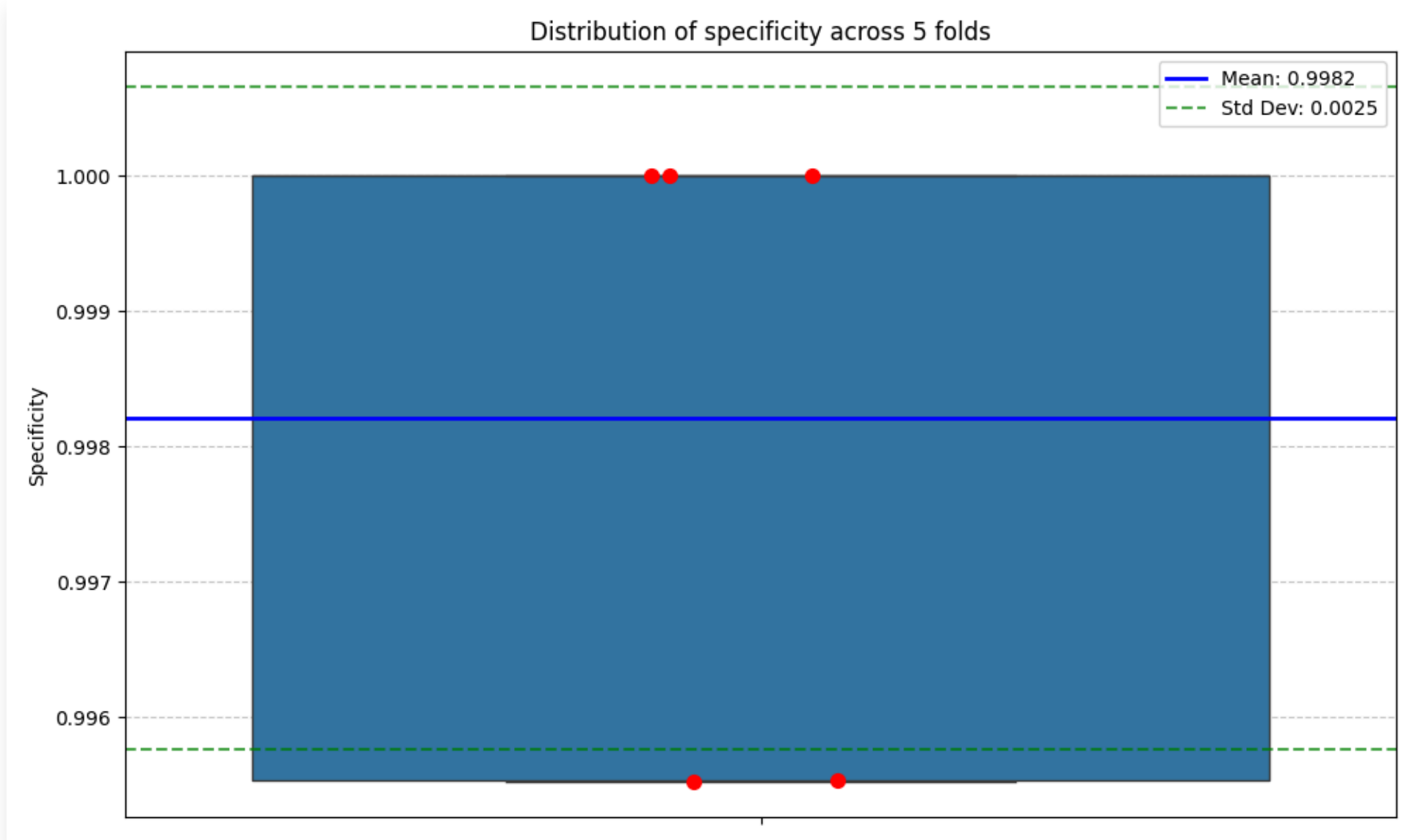
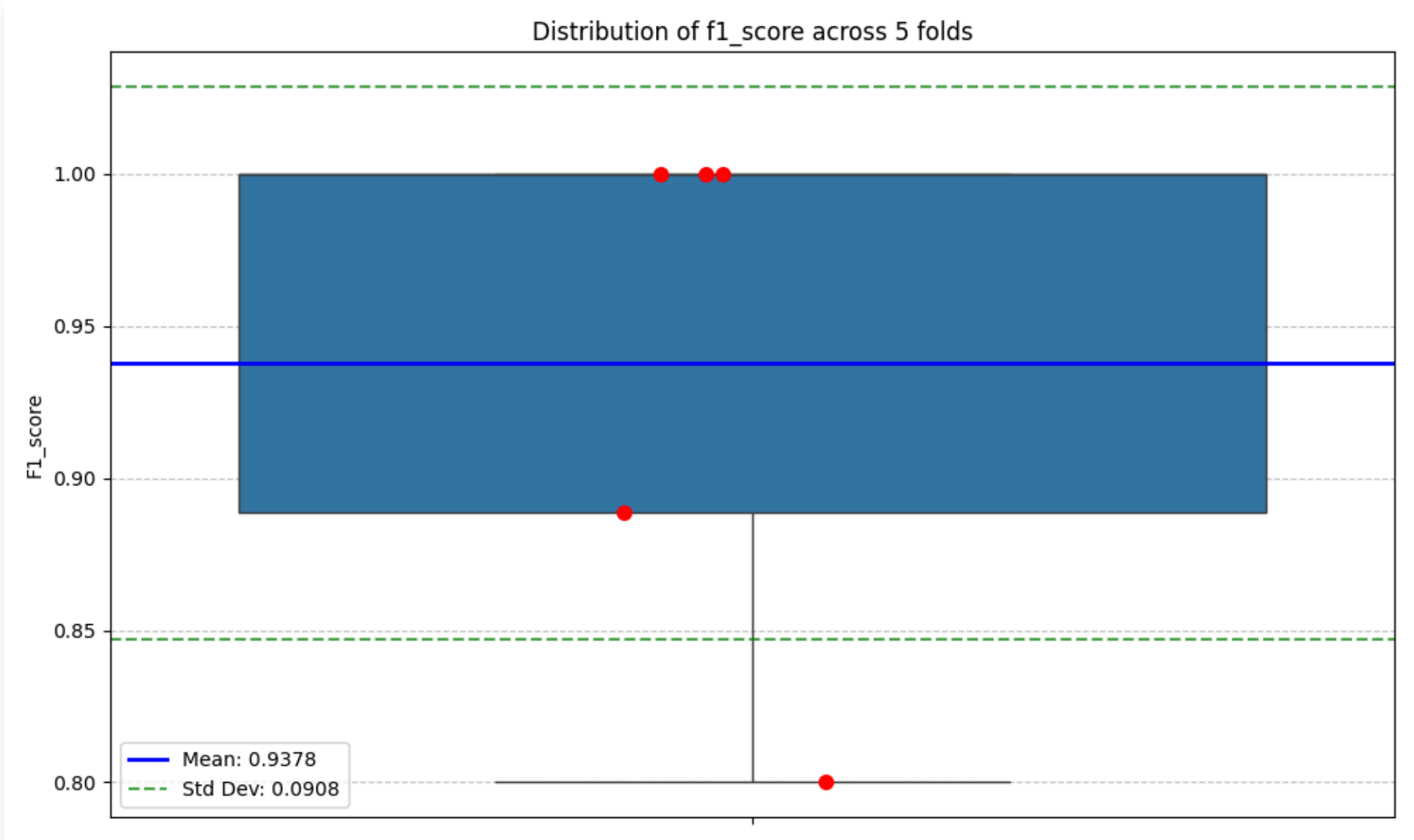
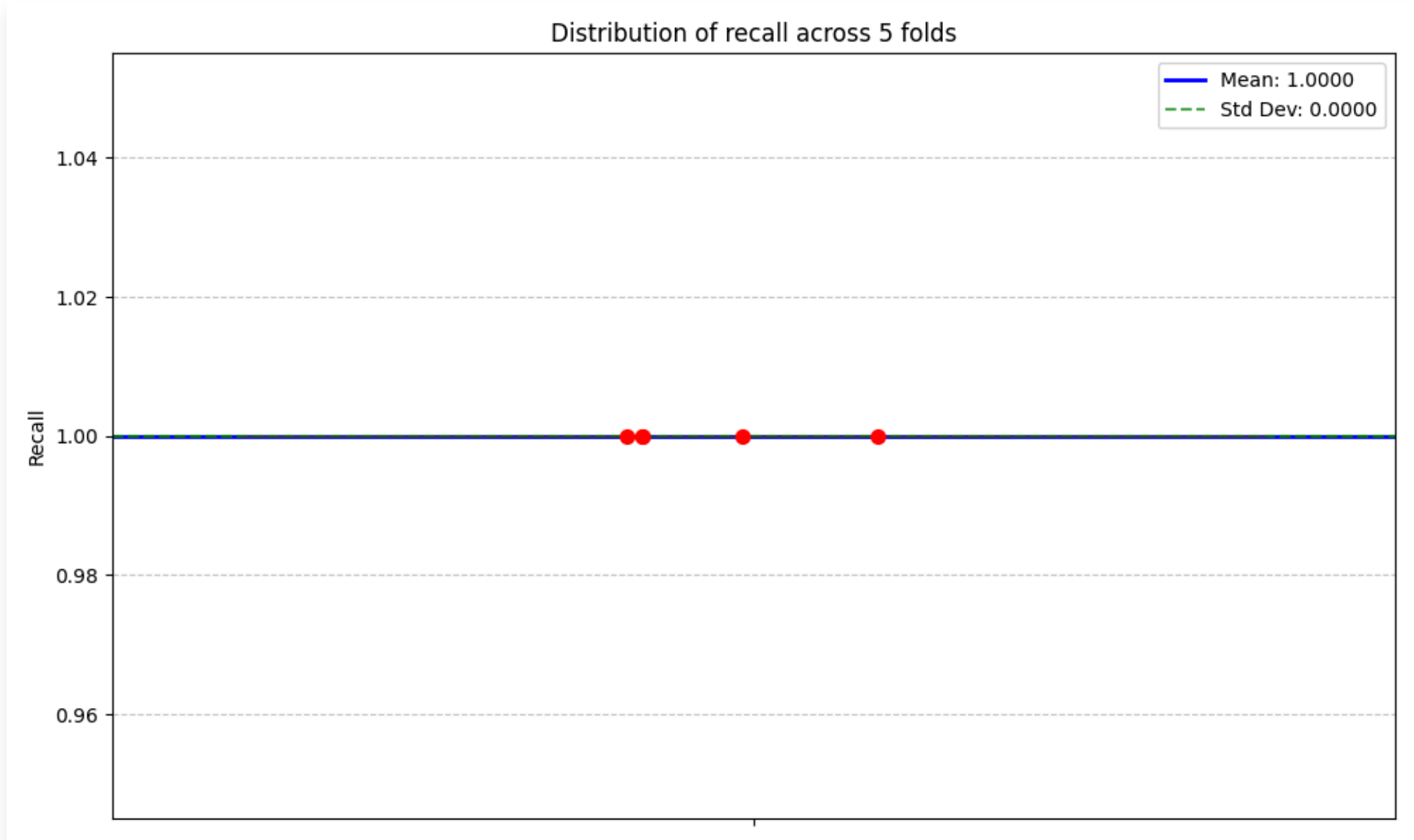
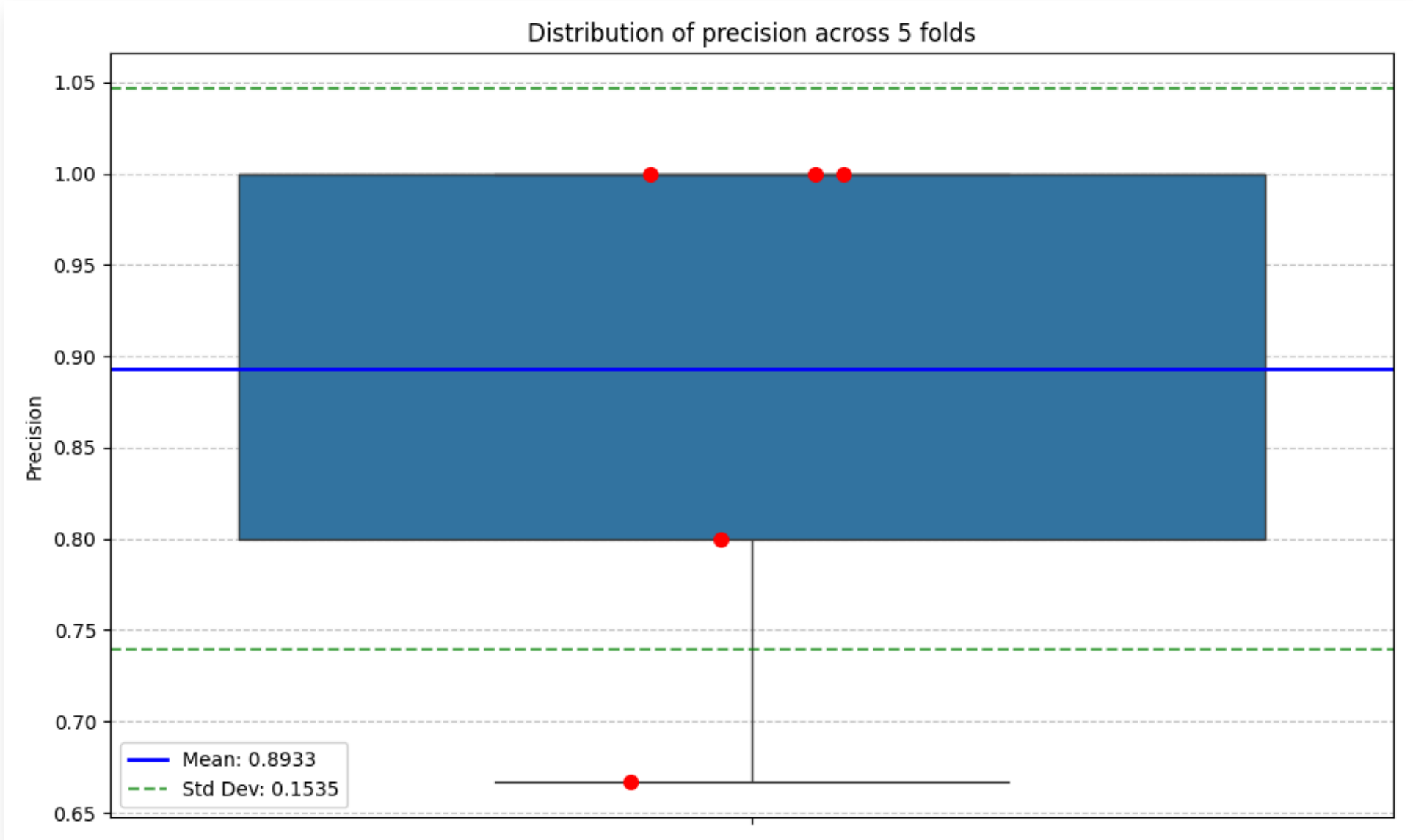
## Overview

- Total samples analyzed: 1133
- Number of anomalies in dataset: 11
- Percentage of anomalies: 0.97%
- Number of folds: 5

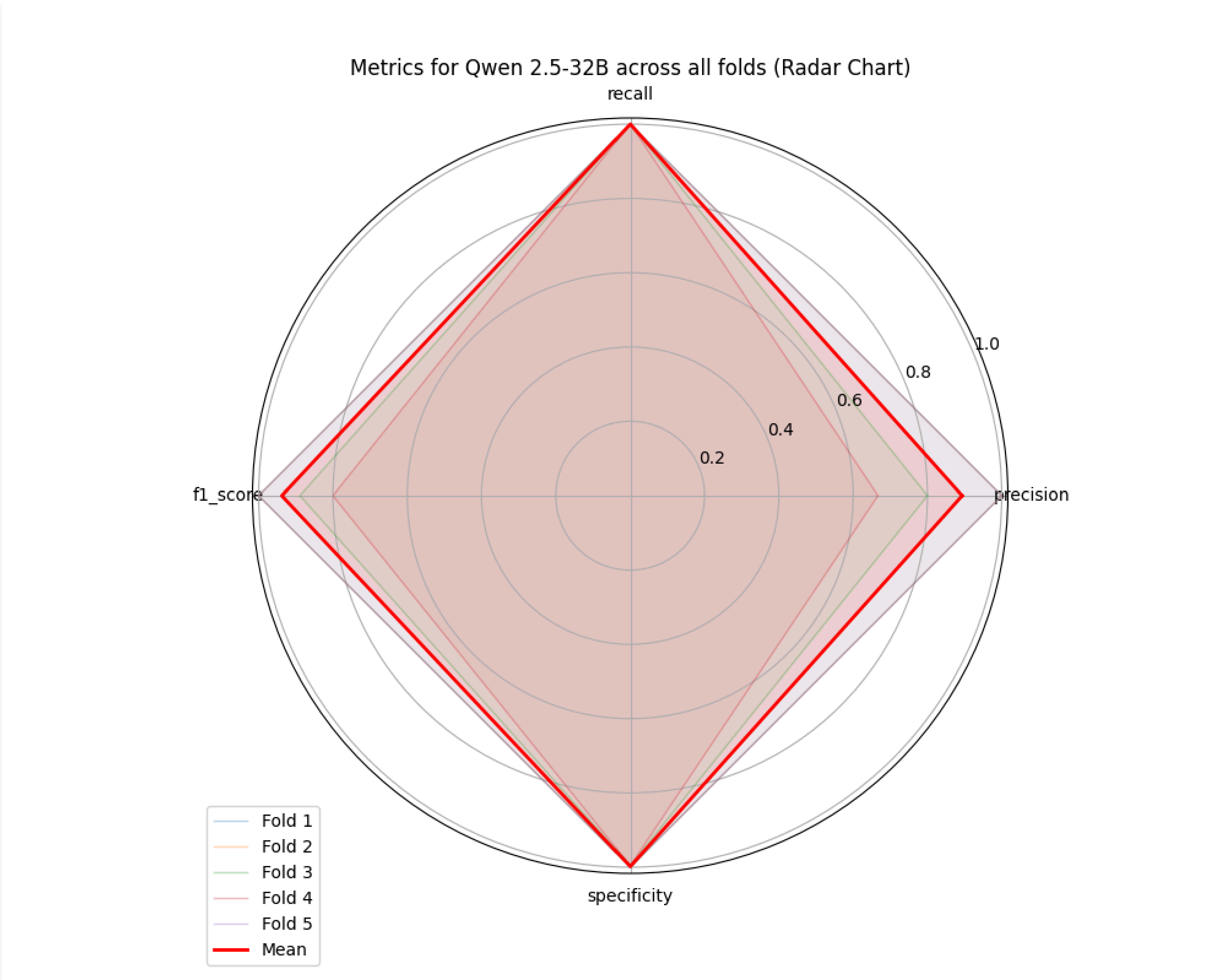
## Main Metrics (mean $\leftrightarrow$ std)

Metric	Mean	Std Dev	Min	Max
precision	0.8933	0.1535	0.6667	1.0000
recall	1.0000	0.0000	1.0000	1.0000
f1_score	0.9378	0.0908	0.8000	1.0000
auc_roc	0.9991	0.0012	0.9978	1.0000
specificity	0.9982	0.0025	0.9955	1.0000

## Metrics Visualization



## Metrics Radar Chart



## Interpretation

The metrics show consistency across folds, indicating that the model generalizes well to unseen data. The F1-score variation (CV=0.097) is normal, suggesting a good balance between stability and adaptation.

## Conclusion

The Qwen 2.5-32B model shows overall good performance in classifying anomalies in the predictive maintenance dataset.