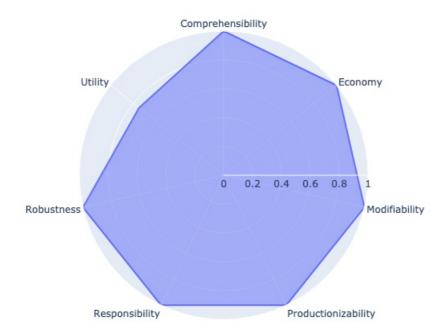# ML Quality Assessment

# Example system 1

**Date:** 2024-04-03

**Business Criticality:** production critical

**Maturity level:** 0/5 (5/5 required for production critical)

**Maturity Status: Insufficient maturity!**

**Quality score:** 96/100



**Summary:** The system is of high quality, however the maturity is not yet at level 5 which is the expected one. This is because some prerequisites are missing, see below for more details.

## Bring your model to maturity level 2

Fix: **Accuracy** - step 1 (Utility)

**Motivation:** 50% R2 improvement with respect to baseline

**How to fix:** Provide a [comparison with a baseline](#) or [validate inputs](#), based on what is missing (see Motivation).

## Bring your model to maturity level 5

Fix: **Accuracy** - step 2 (Utility)

**Motivation:** 50% R2 improvement with respect to baseline

**How to fix:** Provide a [comparison with a baseline](#) or [validate inputs](#), based on what is missing (see Motivation).

If the aforementioned practices are not enough, you can request an [ML System Brainstorm](#) and we will assign 2 reviewers to discuss how to improve your model.

## Satisfied quality aspects

- **Repeatability**: The ML lifecycle is automated (even partially).

- **Standards-compliance**: Compliance standards are known and met.

- **Efficiency**: Basic operations are automated.

- **Cost-effectiveness**: The ML system is fullon.

- **Adaptability**: The ML system is (even partially) adaptable.

- **Discoverability**: The ML system is registered in the [ML Portal](#).

- **Traceability**: Metadata and artifacts are logged (even partially).

- **Monitoring**: Feature drift is being monitored.

- **Operability**: The model deployment can be disabled, uploaded, reverted.

- **Understandability**: The ML system has (even partial) documentation.

- **Monitoring**: ML Performance is being monitored.

- **Resilience**: The ML system's failures per quarter are less than 5.

- **Operability**: The model is deployed in a highly available serving system.

- **Readability**: Variables, functions, classes have clear naming.

- **Maintainability**: Code is versioned using Git.

- **Explainability**: The ML system's predictions can be explained

- **Ownership**: The ML system has a team assigned as owner.

- **Testability**: At least 20% of the source code is tested.

- **Readability**: The code has a unified code style.

- **Usability**: The model's output can be accessed.

- **Vulnerability**: The ML system is not vulnerable.

- **Responsiveness**: Latency/Throughput requirements are known

- **Modularity**: The code is (even partially) modular.

Learn more about the maturity levels [here](#).

*Generated with ml_quality 0.1.17*