## ITEA PO Days 2023

Industrial-grade Verification and Validation of Evolving Systems

ITEA Award of Excellence 2023 ceremony 13 September 2023 Mark van Helvoort | Philips







This is not a cat.





## The winner of Fast MRI Challenge

hosted by Facebook AI research and NYU Langone Health in 2019





- Diagnostic accuracy
- Diagnostic confidence
- Broad range of patients
- Maximum use of data
- Data quality
- Trustworthy AI











- Data quality
- Trustworthy AI





## SW vs AI testing

Rule-based

Test oracle

Test adequacy criteria

Rare changes

Stats-based

Testing the data

Testing the model

Monitoring the data

Data bias

Model bias

Frequent changes



Testing the

system

Monitoring

Testing the code

## MLOps = DataOps + ML + DevOps













