

Lumberjack Partial Presentation

Wazuh

First Attempt Everything Together

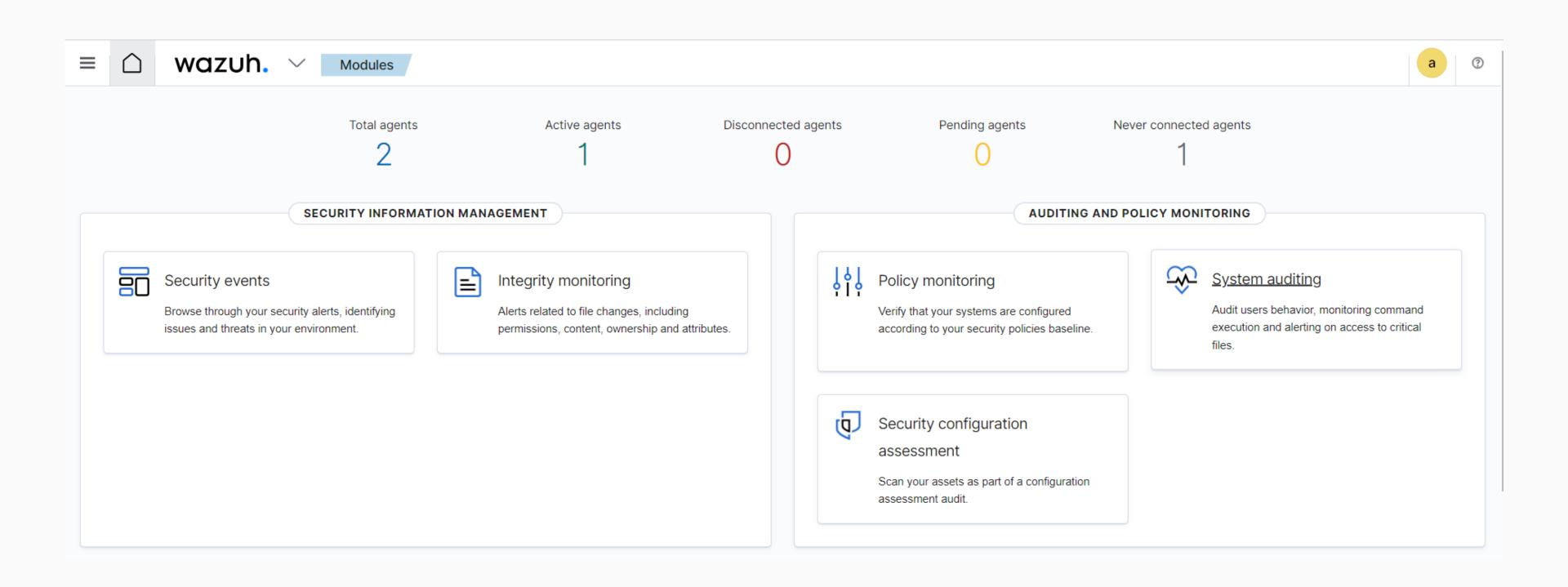
- Not familiarized
- Bad Idea

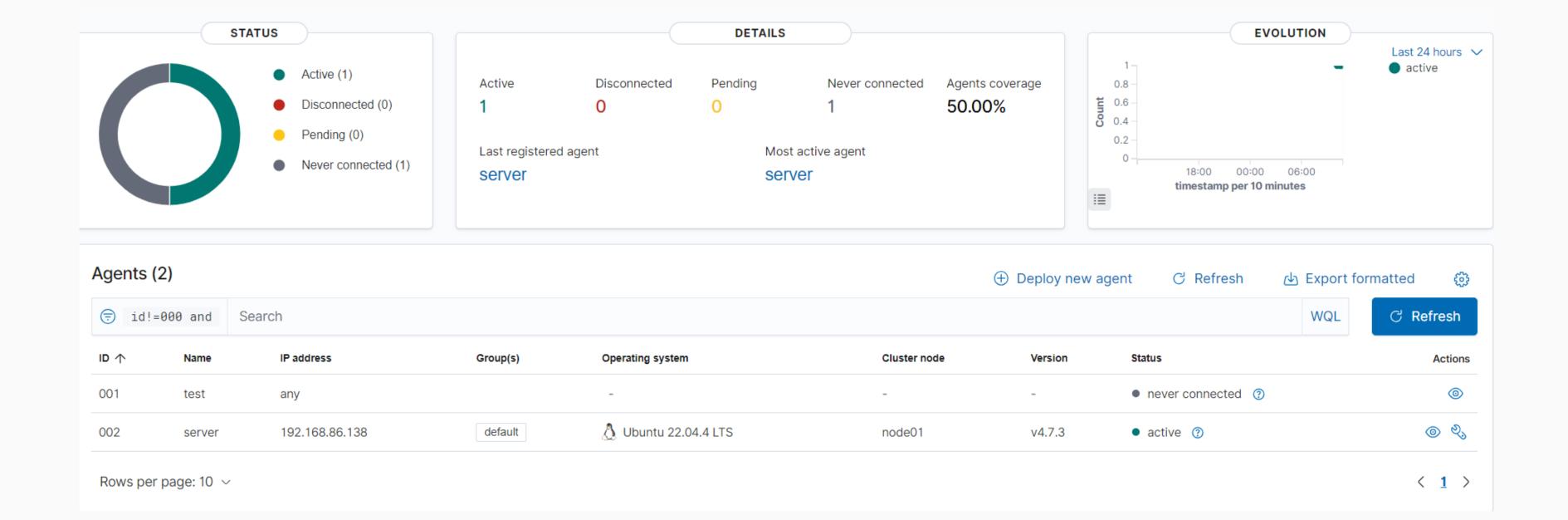


Simulate a Server as our agent.

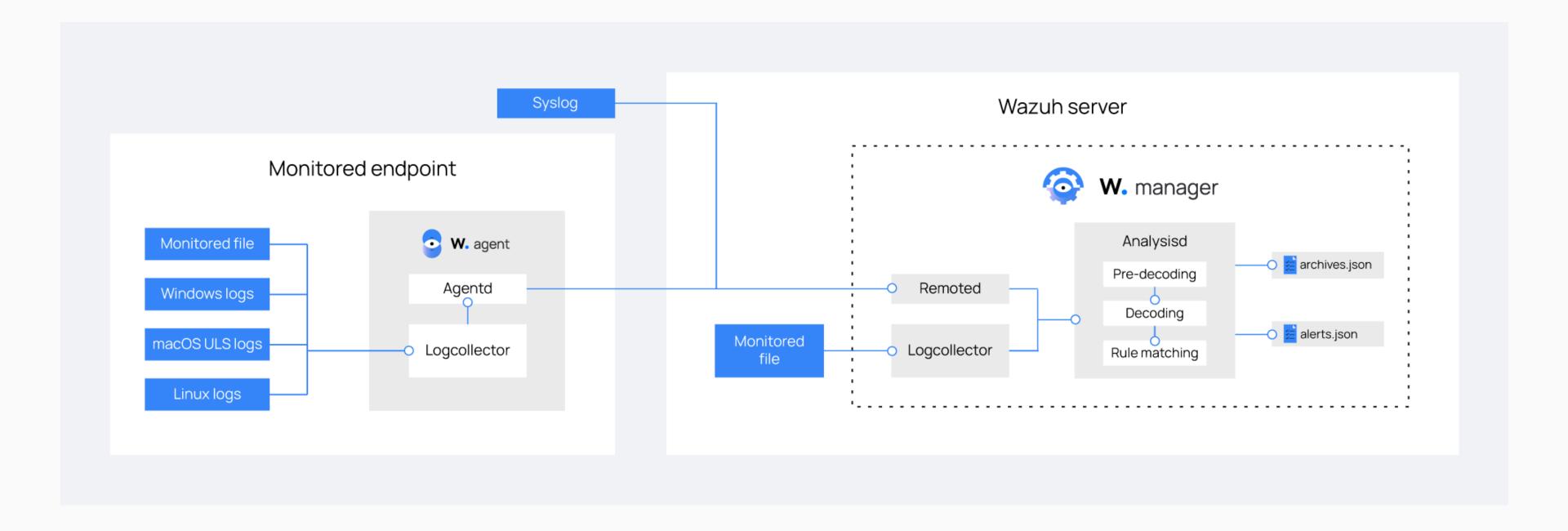
- IPs troubles when installing an agent, we had difficulties to connect again. Maybe because of the vm environment.
- Injection of logs still a challenge



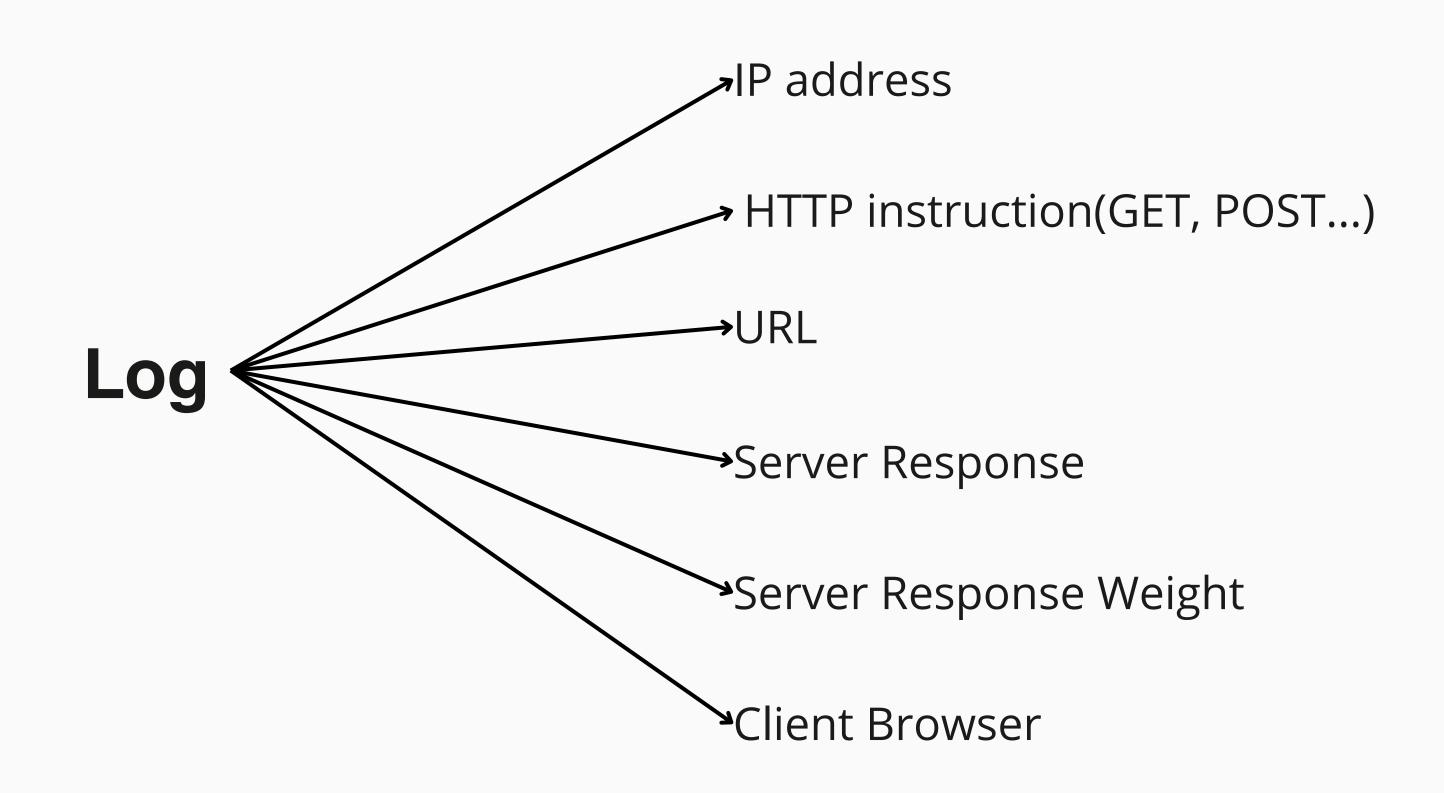




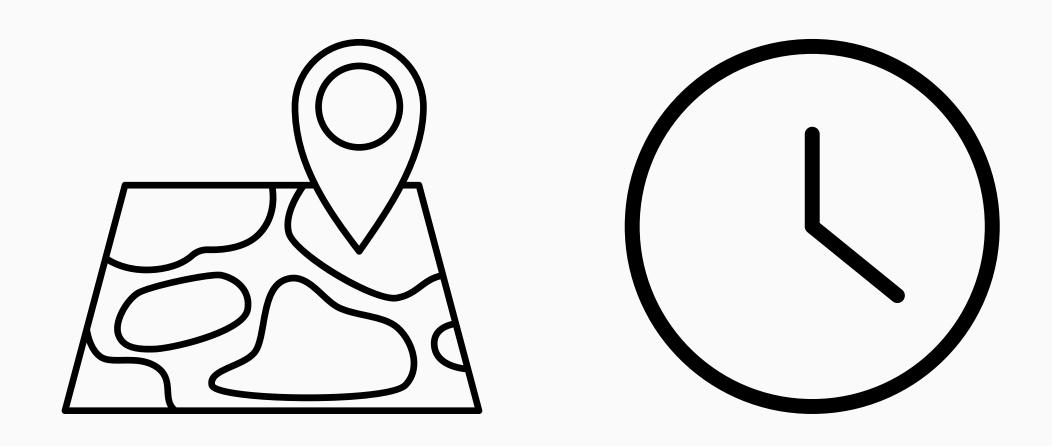
Future Challenges



Segmentation

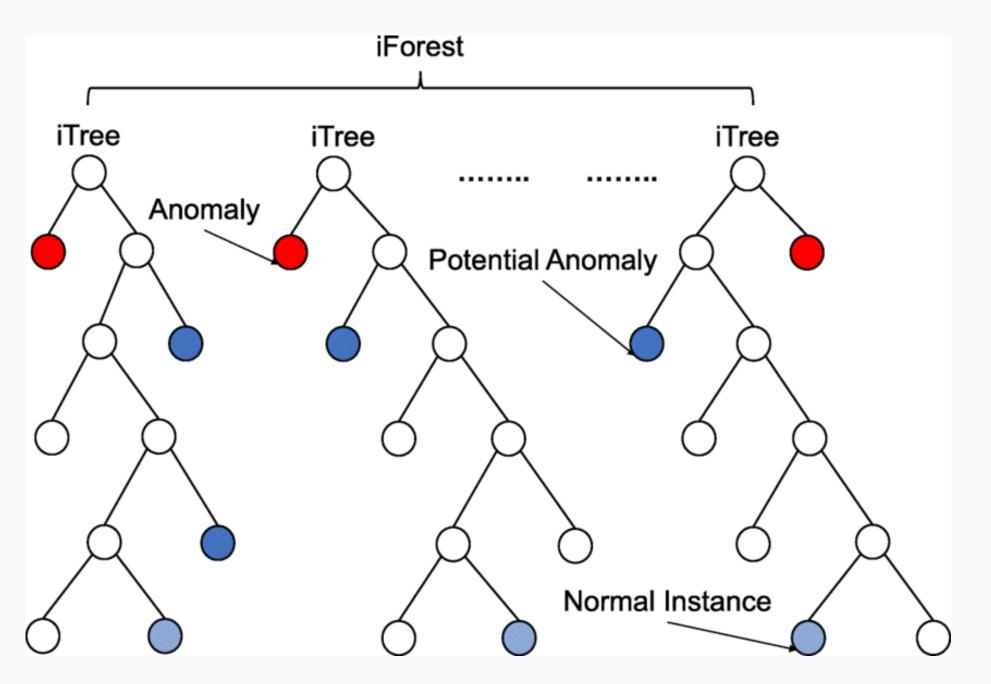


Feature Extraction



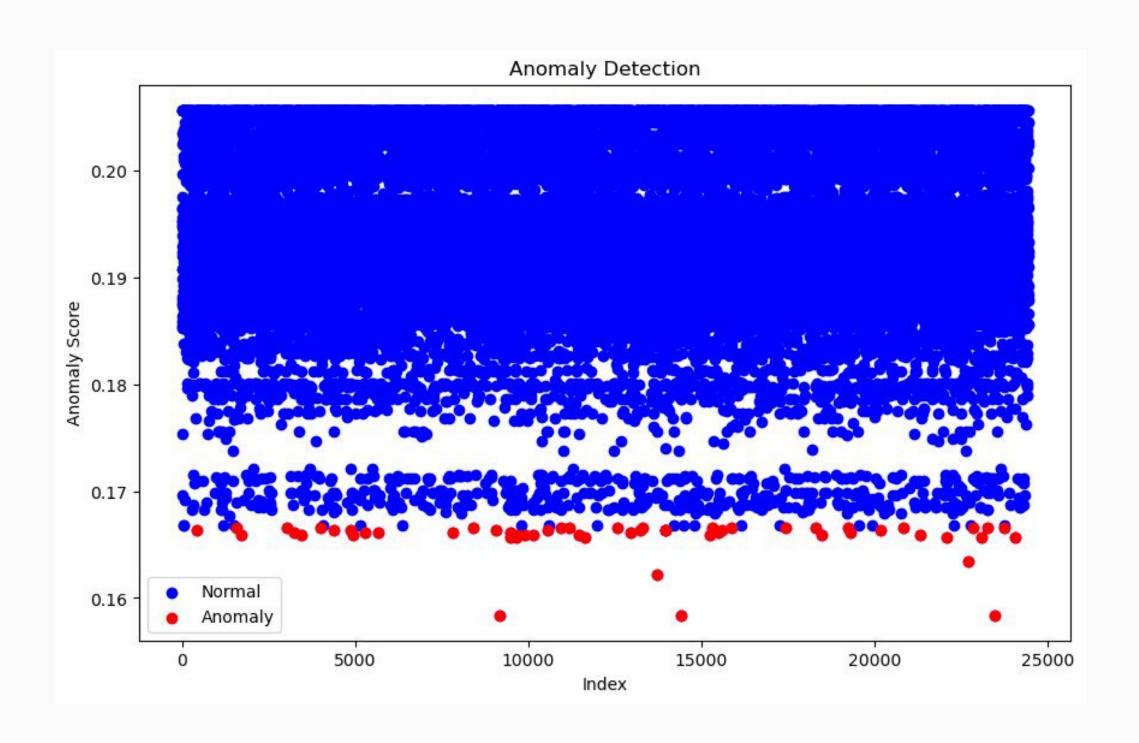


Our Current Approach: Isolation Forest



Unsupervised Learning

What we have until now



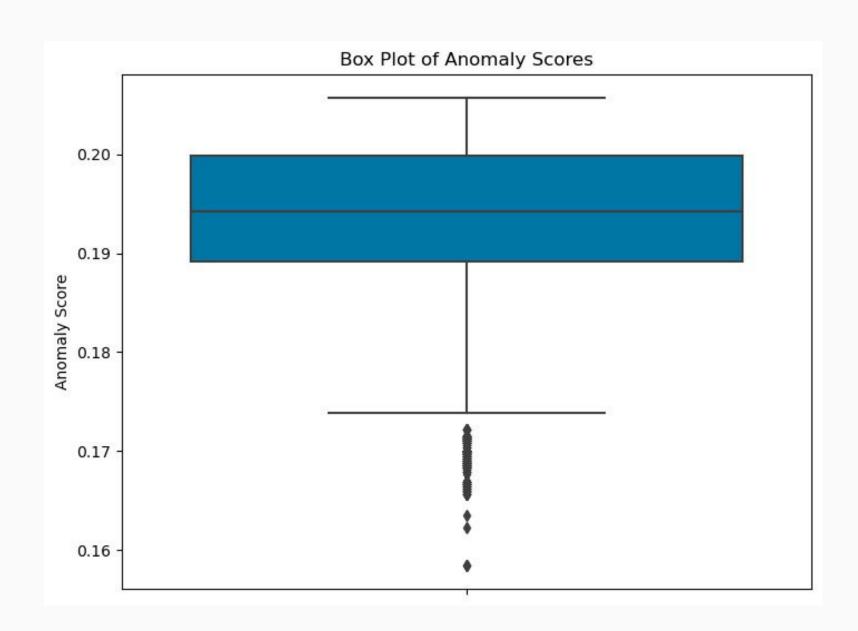
0,25 percentile threshold (not definitive)

No fine-tuning

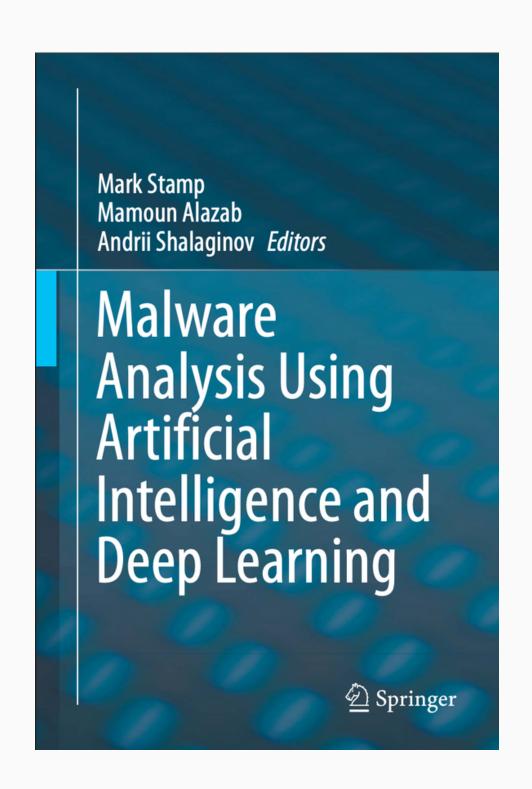
No evaluation

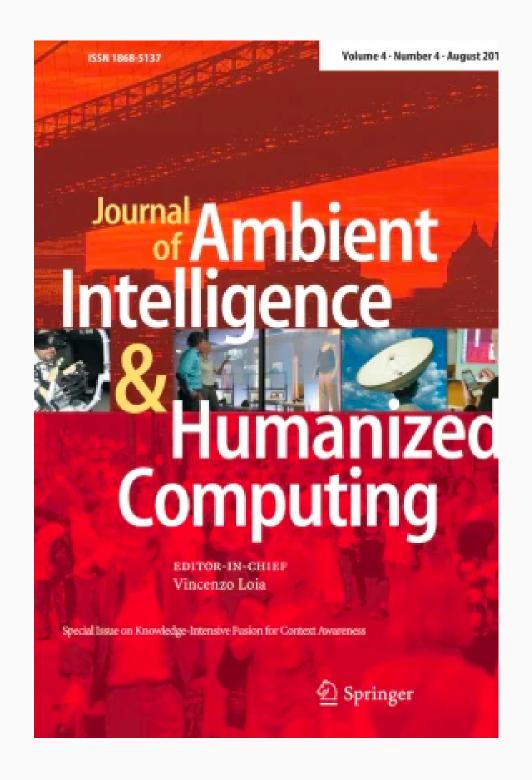
Main Difficulties

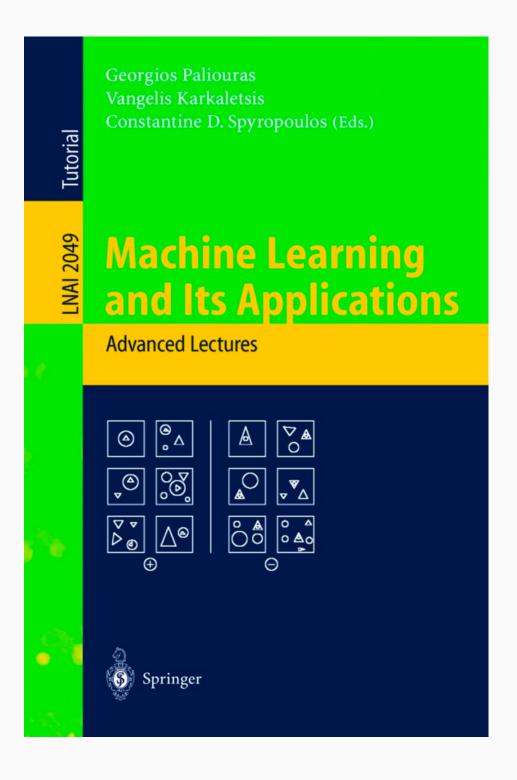
- No proper way of evaluating (lack of feedback)
- More features needed
- Some features were dropped (IP, coordinates...)



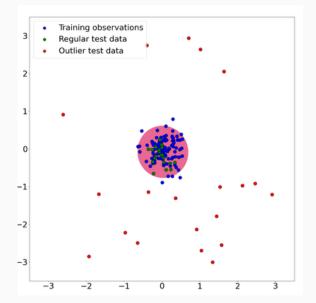
What's next?

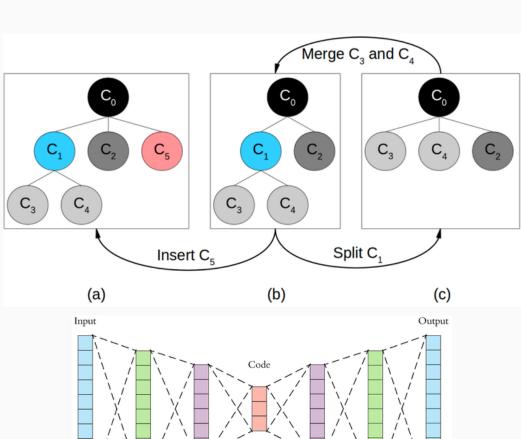


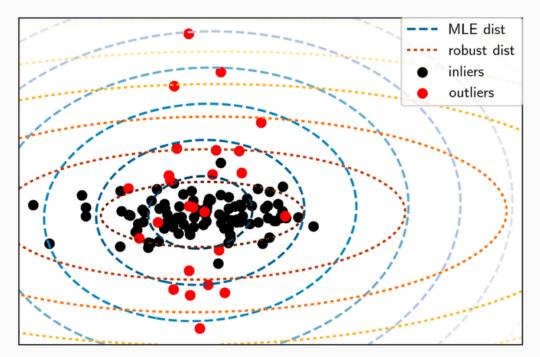


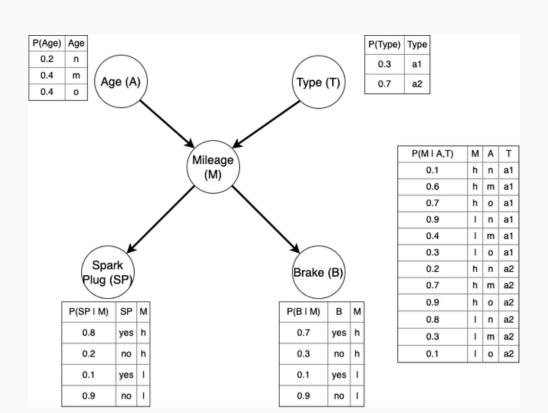


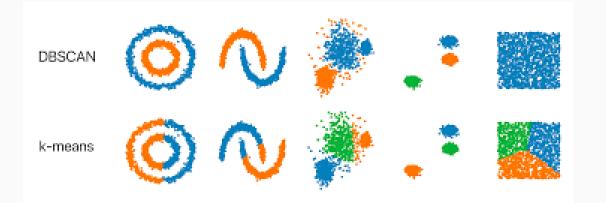
Model Mania



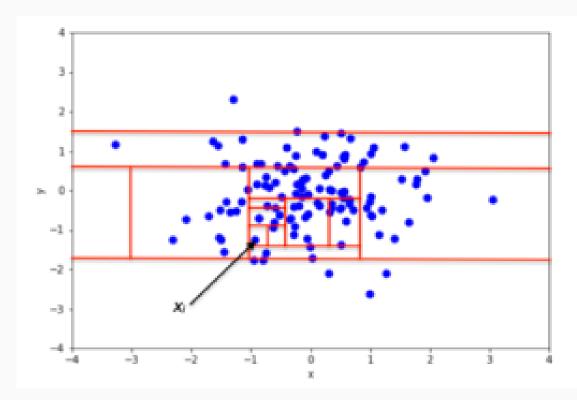




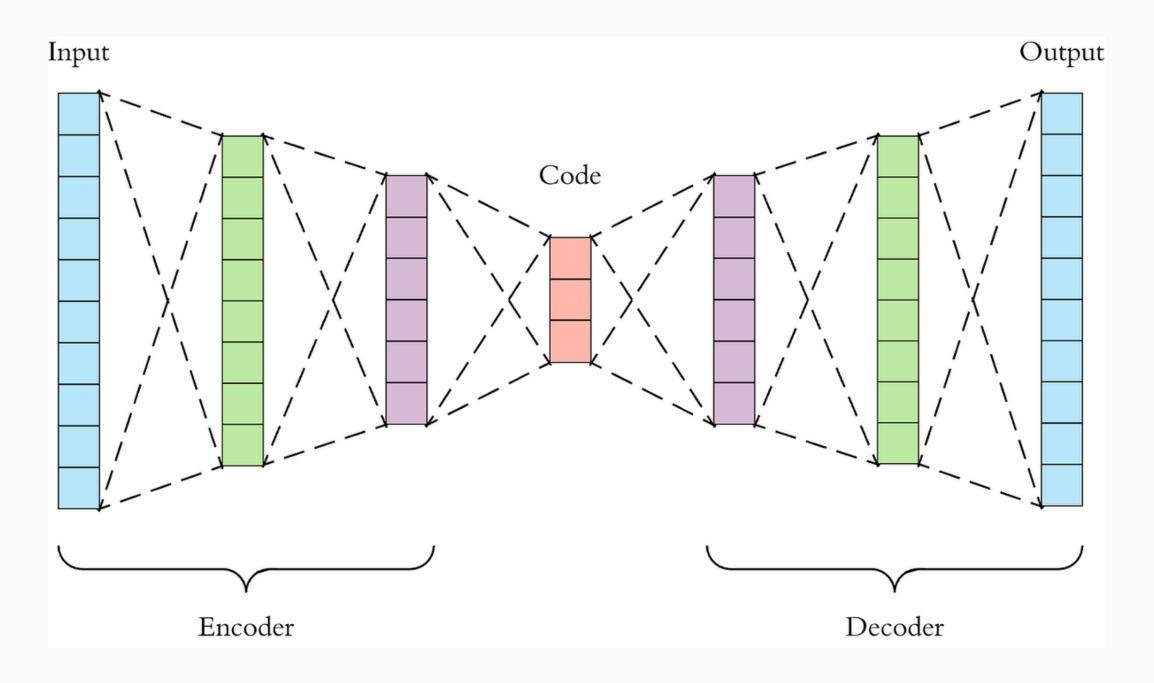








Lumberjack is going Deep!



Decoding accuracy measured with the root mean standard/squared absolute error (RMSE, MAE2)

Thank you for your attention!

Any questions?