06/03/2024

Prometheus



SYNTHETIC SAMPLES SIMULATOR ENGINE

The **General Purpose** output can be used to supply training set shortage, develop PoCs, virtual experiments, run a variety of tests, etc ...





A Highly Extensible tool that can easily accommodate & scale for new needs; simulate new failures, control sensor configurations, consider new assets

High Fidelity & Control allow to produce samples of the highest quality, useful for even production purposes





INSTALL & EXECUTE



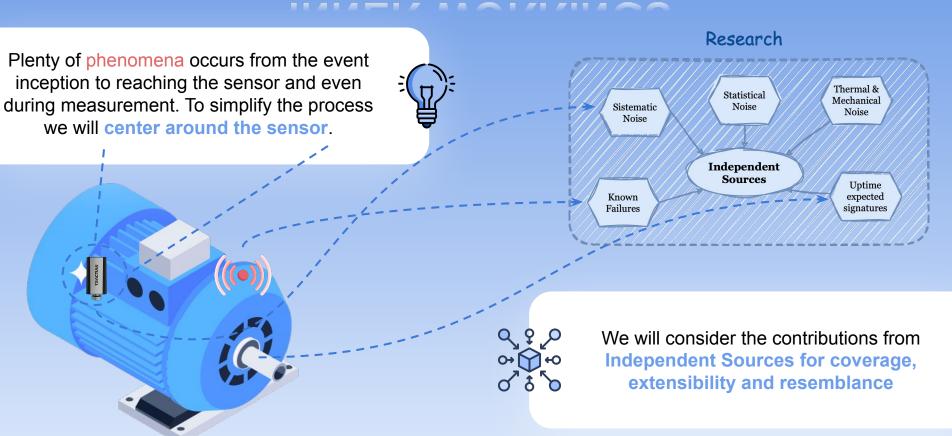
- - # with python >= 3.10.12
 - ~ python -m venv venv
 - ~ aws sso login
 - ~ source setup_codeartifact.sh
 - ~ pip install tractian-prometheus
 - ~ python -m tractian_prometheus -f recipe.toml







INNER WORKINGS

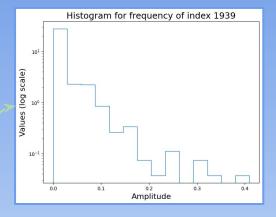


INNER WORKINGS

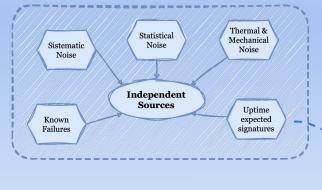
From each Independent Source we will extract Seed Feature Distributions

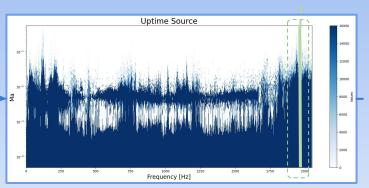
These will be stored in the cloud and we'll be safely accessible by the pkg only













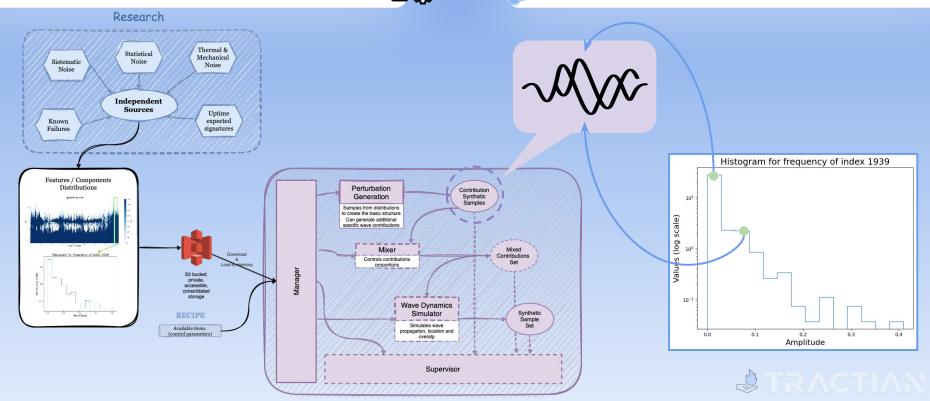
INNER WORKINGS

The package inner structure looks like this





To **simulate** is essentially to sample from a given distribution.





11 Mar 24 \ 10 May 24 \

15 May 24

Release 0.1.x

Mapped requirements from users feedback.

Quick mods to address user feedback on tool usage.

Release 1.0.0

Add most requested features. New seeds? Mixture? Op changes?

Call to Action to experts

Evaluation

Review previous month of usage.

Take 1 month of upgrades to collect feedback only.

Plan new release 2.0

lf previous evaluation justifies it we'll plan & develop an ungrade

Call to Action

- Release 0: this release has the purpose of identifying the urgent upgrades, thus we need your feedback. You will have 3 days to
 use the tool and provide feedback, via a GoogleForm.
- Release 1: given the feedback we'll fit in a month of development & deploy the top 3 or 5 most relevant features. Release 1.0.0 should cover at least 50% of use cases. This development stage will count on your contribution, mainly in adding new seeds. For that we have tools built in the pkg (tool) and guides detailed in the CONTRIBUTING.md file.





QUESTIONS & COMMENTS





