

WG anomalies

No ongoing or planned of AI or ML projects, but the interest for operation is there.

Interests for ESRF:

- Large amount of data to manage for early detection of problems need AI to help the operators with more automation. (Usually done by experts on request of the operation).
- Detect deviation from nominal working point.
- Prediction of hardware anomalies (PS, vacuum, diagnostics, RF, timing, etc...)
- Advanced detection of potentially skipped refills
- Correlation between gaps set points and available archived data (vacuum, magnets set points, diagnostics, halo monitor)
- Abnormal lifetime reduction
- Determination of optimal operational parameters (orbit, tunes) based on archived data
- Problem of synchronisation of data acquisition, optimisation of data logging
- Adaptation of tools to Tango (contribution to agnostic tools development)

Contribution of ESRF:

0.33FTE/Month

beamtime

cluster resources