Data Project

We have a challenge to get you familiar with our technology! We have recorded two datasets of vibration data from two different machines using our ***AiSight*** Sensor-node. It would be great if you could go through the data of one of the two machines and present your insights to us in the next interview. Timeline for this project is 7 days, but of course you can hand in earlier ;)

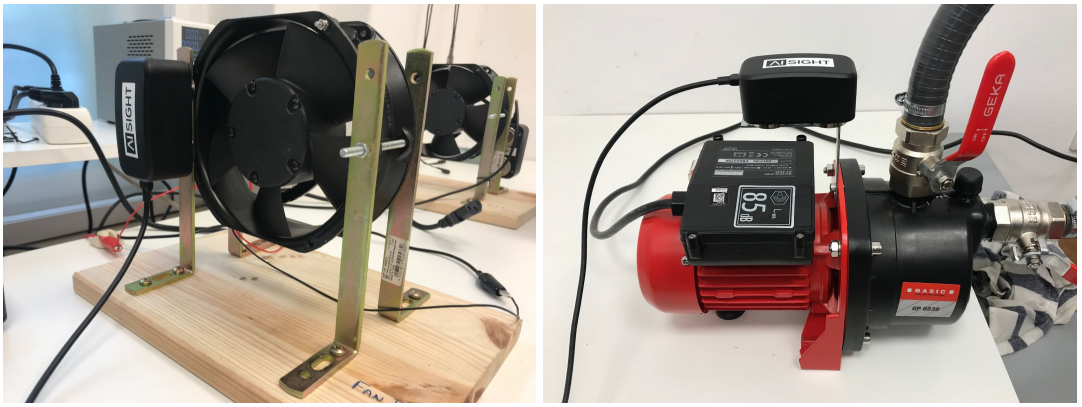

Figure 1. ***AiSight*** Sensor-node installed at an Industrial Fan and Pump

DataSets: You can choose one of the two machines!
Available @ https://aisight.de/drive/dataset/2019-05-03/DataSet.zip
The compressed file above contains two different datasets:

- *project_fan.csv* - Data recorded at an Industrial Fan
- *project_pump.csv* - Data recorded at an Industrial Pump

CSV structure:

- Without header rows!
- Columns are the following:
  - Unix time
  - Amount of samples
  - Time period (milliseconds)
  - Sampling Rate
  - Sensor data (millivolt reads)

What we are looking for:

- A well structured and organized report, presentation or any way that you think is best suited;
- Freedom: Feel free to choose your own programming language / Data Scientist's Toolbox;
- And, of course, good insights :)

References

- Application Notes: Vibration Diagnostics for Industrial Electric Motor Drives https://www.bksv.com/media/doc/BO0269.pdf
- The Role of Vibration Monitoring in Predictive Maintenance https://www.schaeffler.com/remotemedien/media/_shared_media/08_media_library/01_publications/schaeffler_2/technicalpaper_1/download_1/the_role_of_vibration_monitoring.pdf

For any questions regarding this project, contact us at: hr@aisight.de