

NATURAL LANGUAGE PROCESSING FOR THE EXPLOITATION OF TRAIN INTERVENTION REPORTS

By entity recognition using a deep neural network and ontology

The decoding of maintenance reports is a tedious task that monopolizes a lot of time for the business experts in order to extract from the comments the information useful for train maintenance.

We have designed a solution that combines deep learning with an ontology to improve named entity recognition. This solution identifies relevant information and returns it in a format appropriate to the expertise tools.

The time devoted to decoding comments has been significantly reduced (by 20% on average), and the quality/quantity of information has been improved according to the opinion of business experts.