

Automatic anonymisation of unstructured data: dream or reality?

Smart City and Mobility Conference

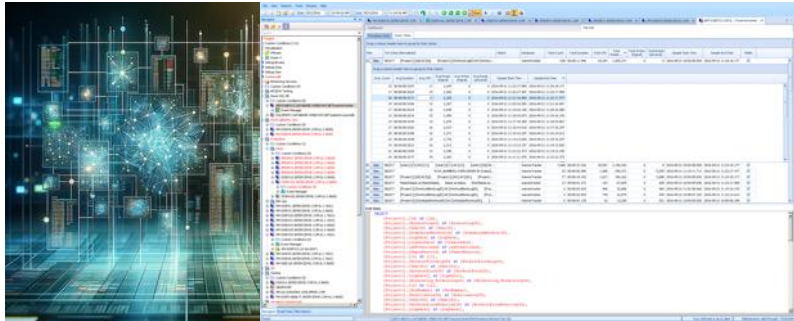
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Personal data in structured and unstructured data

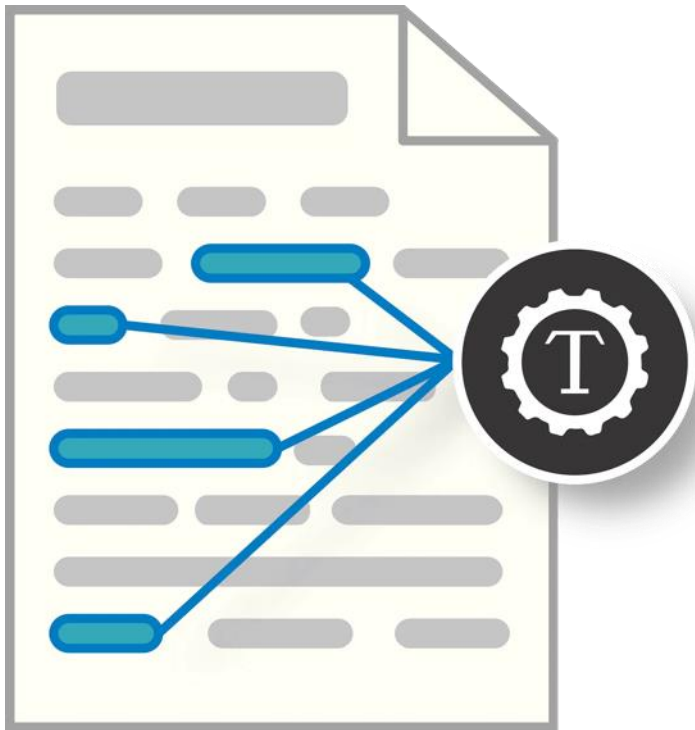


Name	Surname	Age	Blood pressure	Weight	Height
Doe	Jon	45	7 - 12	98	190
Dare	Jane	34	8 - -15	56	164
Drey	Jake	27	8 - 12	75	187



- ▷ Structured data: Tables, Database (relational, graphs)
- ▷ Unstructured data: Pictures, Photos, Videos, Texts

AI to anonymise



- ▷ Name Entity Recognition and replacement
- ▷ Object (face, number plate) recognition and blurring
- ▷ Automatic vocal deformation
- ▷ ...

Chat with your own data



- **Client:** Public sector
- **Challenge:** Automatically answers standard questions of citizens on a particular subjects (e.g. urban planning rule)
- **Outcome:** A chatbot that gives answers to the citizens based on a set of validated documents
- **Data:** Could contain document with personal information (e.g., building permits) has to be anonymise first

Overhead lines monitoring



- **Client:** STIB/MIVB
- **Challenge:** Reduce the number of on-the-network breakdowns of trams in Brussels.
- **Outcome:**
 - Custom AI image processing solution detects key points on the electrical line and the pantograph providing the state of the network in near real time.
 - Visual platform displays the collected data on a map of Brussels to facilitate diagnostics on a daily basis, improving the ability to monitor the network.
 - The platform raises alerts when anomalies in pantograph/line positions are detected, so that preventive maintenance can be performed.
- **Data:** Images which could contain people, need to blur any face

*In collaboration with Bagaar

Thank you!
Any questions?

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