

## **The Loop Cognitive Computing Platform**

The Loop Cognitive Computing Platform is an AI platform that helps organizations leverage their unstructured data. It automatically interprets natural language and extracts a ready-to-use, structured representation of concepts and relationships contained in small or large stores of text.

Our platform uses proprietary algorithms based on unsupervised deep learning and classical symbolic reasoning, which together learn the underlying structure of language data -- without requiring expensive human-generated labels, and without requiring pre-defined dictionaries or hard-wired parsing.

The learned models are therefore highly specific to each customer's domain. Other solutions often use broad-coverage lexical resources (e.g., Wikipedia) as a basis for understanding. Despite their amazing breadth, these resources rarely capture the deep nuances of each organization's conceptual world, or the domain-specific meanings of words and phrases used in that organization's corporate culture. Our platform learns the meaning of words and phrases (and their misspellings) directly from the source data. Another advantage of our dictionary-free technology is its applicability to nearly every language.

We've created three deployments: (1) an on-premises HPC physical appliance keeps sensitive data safe; (2) a cloud-based SaaS version for non-sensitive data; and (3) an embedded version that learns and reasons efficiently on IoT and mobile devices (currently Android).