

AI opportunities for **Public Sector** and **Regulated Industries**



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We're in the best age of AI - NLP (yet)!

- 1 NLP/Text Analytics concepts become known worldwide because of **ChatGPT**.
- 2 Open available frameworks + Advances on algorithms (Transformers) + Affordable processing power = AI is no longer for “**aristocrats**”.
- 3 AI on the verge to become **Democratic** through **No-Code ML** platforms.



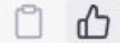
ChatGPT agrees :)



are we in the best age for natural language processing?



Yes, we are currently in the best age for natural language processing (NLP) thanks to recent advancements in machine learning and artificial intelligence. In particular, the development of deep learning techniques and the availability of large amounts of data have enabled significant progress in natural language processing.



For instance, the development of transformer-based language models, such as GPT-3, has led to remarkable achievements in tasks such as language translation, text generation, and sentiment analysis. Additionally, the emergence of pre-trained language models has made it easier for developers to create NLP applications by leveraging the vast knowledge learned from large datasets.

Furthermore, the increased availability of NLP tools and frameworks has made it easier for researchers and developers to create new NLP applications and improve existing ones. Additionally, cloud-based services provided by companies like Google, Microsoft, and Amazon have made it easier for businesses to implement NLP in their operations.



Common issue: **Drowning in bureaucracy** **and paperwork**



- **Central, regional and local Government**
- **Security, Defense & Law Enforcement**
- **Education, Healthcare, Infrastructure, Environment**



- **Energy, Oil & Gas**
- **Telecom**
- **Finance**
- **Insurance**
- **Pharma**





Secure AI

Company confidential data needs to be kept secure. Cloud is not always an option. AI cybersecurity by design.

Best Approach AI

Acknowledge that different AI approaches (ML vs KB) can have value for different use-cases.

AI- first approach

Adaptable AI

Customization of AI to company's use-cases & data leads to success. Human-in-the-loop ensures quality output. Humans become knowledge workers.

Realtime AI

Processes that can analyze operational data in real-time ensures fast and informed business decisions.

Top 3 Use-Cases for Adaptable Text Analytics

1.

Data Triage

Organizing and extracting meaning from large data sets of multilingual unstructured data: PII identification (compliance), data intelligence for security & cybersecurity, open source intelligence, reputation management, competition monitoring.

2.

Process Automation

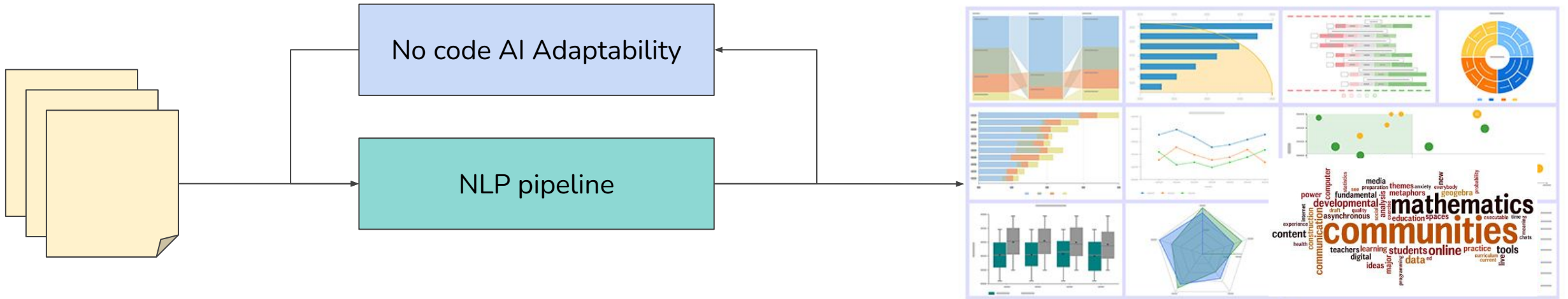
Combining RPA & AI to achieve “hyperautomation”: automating business processes where text & documents are involved, and where humans need to read, understand, summarize and take decision - cognitive tasks are replaces/complemented by AI.

3.

Intelligent KB

Knowledge bases that organize themselves and make interaction with business users easier: legal document management, HR hiring and onboarding, customer support, business operations.

Intelligent Knowledge: Discovery



The DISCOVERY phase of Intelligent Knowledge Management automatically identifies **trends & relationships & insights** in unstructured multilingual information.

Language Detection

Extractive Summary

Sentiment Analysis

Semantic Similarity

Classification

Entity Recognition

OCR

Speech to Text

Machine Translation



IntelliDockers:

- Over 130 out-of-the-box cross-language Text Analytics engines (Transformers, RNN).

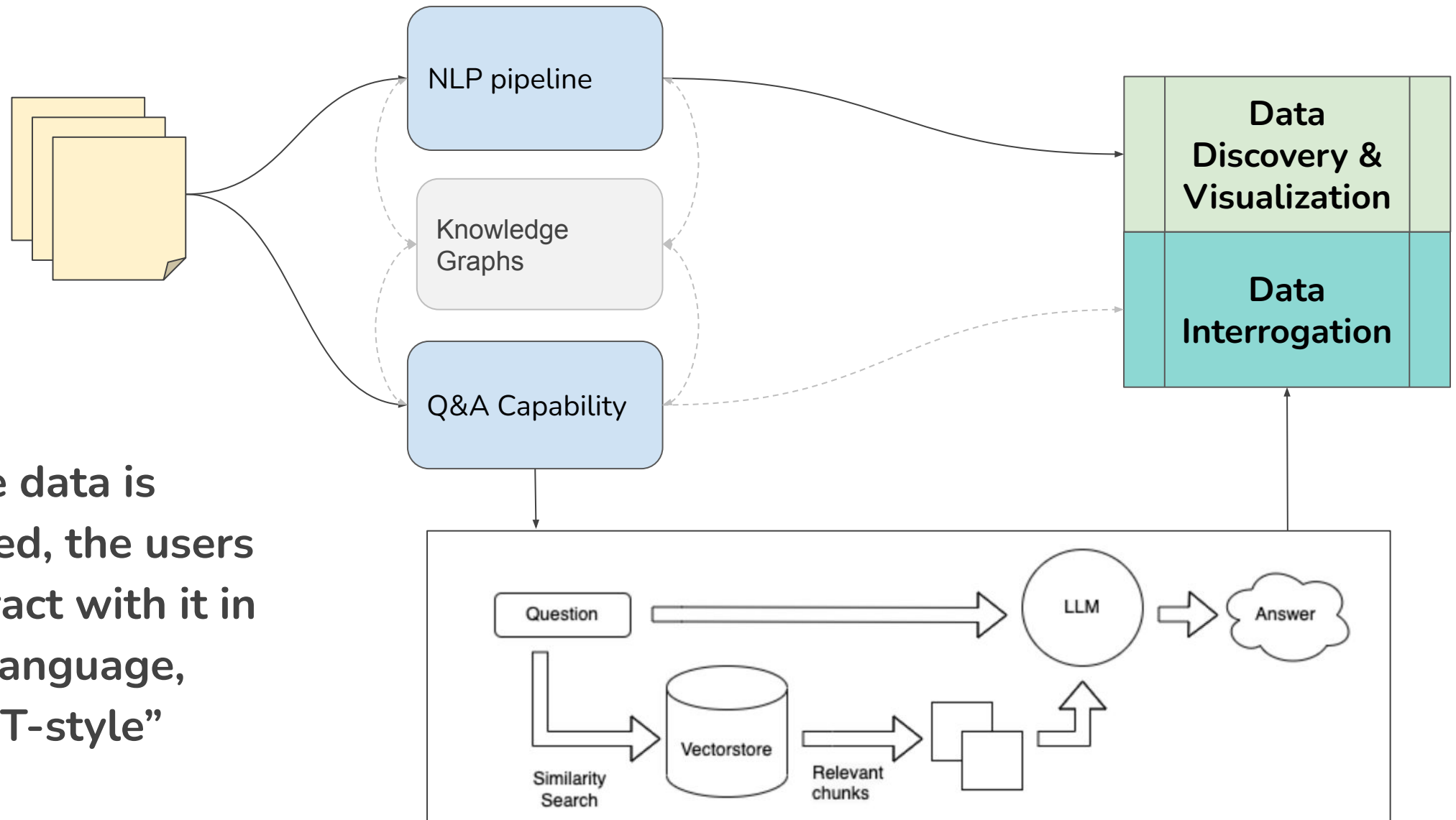
Factory

- Build Classifiers, NER with no coding & AI skills, with rapid time-to-production.

Delivered as Docker containers, with REST APIs & Web UI, infrastructure agnostic.

AI FACTORY	
<h3>Factory</h3>  <p>No-code AI platform for business users.</p> <ul style="list-style-type: none">• https://factory-nocode.ai/• Create and adapt NLP engines using an intuitive user- friendly user interface.• No need to be a data scientist or write code.• Secure on-premise and hardware optimized deployment.	<h3>IntelliDockers</h3>  <p>Self contained text analytics engines for secure data processing.</p> <ul style="list-style-type: none">• NLP backend of TrustServista exposed as Docker containers: www.intelldockers.com• AI CNN, RNN & Transformers: Summarization, Sentiment Analysis, Classification, Semantic Comparison, Q&A engines, Intelligent OCR, Language Detection, Named Entity Recognition.

Intelligent Knowledge: Conversational



Once the data is discovered, the users can interact with it in natural language, “ChatGPT-style”

Thank you!

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