

POWERING DEEP ANALYTICS

Developed data ingestion and text analytics solutions to help build an enterprise vendor contract data analytics solution



CONTEXT

CLIENT

- A multinational IT services, solutions, and products company

KEY DRIVER

- Build a common data platform that brings contract data from a variety of sources within an enterprise to derive deep analytics

CHALLENGES ADDRESSED

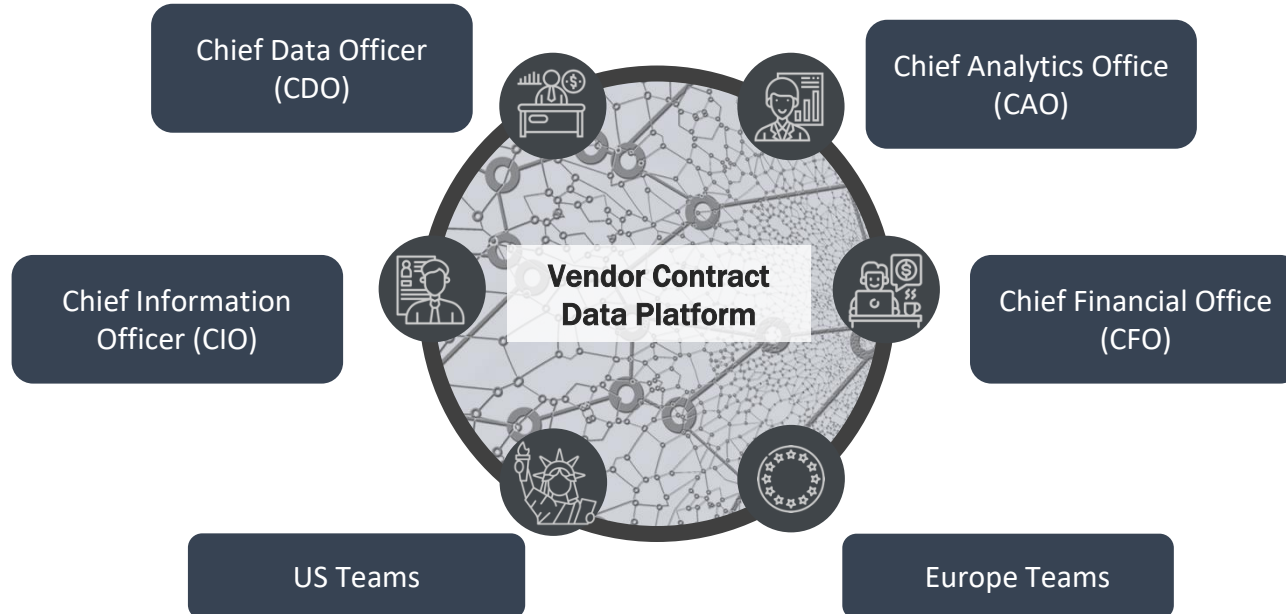
- Contract data in silos across many teams with no standard way of analyzing data
- Lower visibility and no proactive reminders at the right time regarding contract/license status and key dates
- DevOps tools unable to address different programming languages

Our client envisioned a Common Enterprise Data Platform (CEDP) for storing & managing vendor contract data that:

- Provides a centralized repository with data available in standard & structured way across all geographies, teams, and types of contracts.
- Enables disparate teams to use the repository and build information portals and deep analytics solutions to create competitive advantage.
- Ensures the General Data Protection Regulation (GDPR) regulations by storing European and US data in different data stores within respective regions.

SOLUTION – PARTICIPANTS & KEY TECHNOLOGIES

Powered a common enterprise data platform for different teams across the enterprise



TECH STACK

Programming Languages

Python, Java, Scala

Message Queueing

Kafka, RabbitMQ

Content/Text Parsing

Apache Tika, IBM Watson

Text Analytics

IBM Watson

Data Stores

HDFS, DB2

Cloud, DevOps

IBM Bluemix, Bazel

SOLUTION – OUR KEY CONTRIBUTION

CONTENT/TEXT PARSING



Parsed different types of vendor contract documents and extracted information related to contract dates & types, software licenses, and related data

TEXT MODELING & ANALYTICS



Modeled various patterns of required data items (e.g., Customer Number) and trained the models to be able to automatically extract the correct information with high accuracy

DATA TRANSFORMATION & INGESTION



Leveraged queuing solutions such as Kafka and RabbitMQ for message queuing and stream processing before transforming and ingesting the data into target data stores

DEVOPS SETUP & MANAGEMENT



Set up Bazel as the common tool for all the teams to orchestrate build, integration, and testing activities enabling agile delivery processes and systems (CI/CD process flows)





END-USER ORGANIZATION OUTCOMES

INCREASED DATA

Enables teams to have access to the right data at the right time, without delays in processing a variety of input data



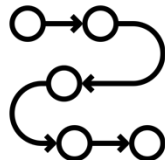
ENHANCED INTELLIGENCE

Helps the teams to derive deep analytics as needed without specialized training or skills



PROACTIVE ACTIONS

Teams can now act or resolve issues in real-time with specific configurable triggers





ENGAGEMENT HIGHLIGHT & CLIENT ORGANIZATION BUSINESS OUTCOMES

18 MONTHS



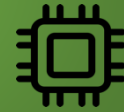
Engagement
across multiple
releases

7 MEMBERS



Core team size
with 2 Data
Scientists and 5
Data Analytics
Engineers

~1K CONTRACTS



Processed each day
across multiple
geographies and
teams

***Note:** Data is indicative and as of 2019*

Customer Success Briefs



THANK YOU

Digital Transformation, AI/ML, DevOps