

DISCOVER THE LEADING-EDGE TECHNOLOGY BEHIND SPARKCOGNITION'S PRODUCTS AND SOLUTIONS

The SparkCognition AI Platform is the driving engine enabling us to solve critical problems for the world's leading enterprise customers. Utilizing any data source, SparkCognition's purpose-built AI Platform leverages our proprietary, award-winning, and commercially-proven machine learning, deep learning, natural language processing, computer vision, knowledge graph, and generative AI technologies—unlocking business value like predicting future outcomes, prescribing next best actions, optimizing asset performance, preventing workplace accidents, interpreting real-time events, and many more real-world challenges.

Combining the intellectual property of over 200 patents, SparkCognition AI Platform brings together five interlocking technology pillars stacked on top of our foundational data and model services framework:

- SparkCognition ML Studio
- SparkCognition NLP Studio
- SparkCognition Knowledge Studio
- SparkCognition Visual AI Studio
- SparkCognition Generative AI Studio
- Data and Model Services

ML STUDIO: AUTOMATED MODEL BUILDING

SparkCognition ML Studio uses automated model building to remove barriers and reduce the time to market for developing AI and machine learning (ML) solutions. Enabling the development of highly accurate, scalable models for time series data, ML Studio improves productivity by streamlining data preparation, automating machine learning tasks such as feature generation and selection, and automatically building multiple generations of models to find the best option for the developed solution. ML Studio's intuitive interface empowers business users and data scientists alike to gain insights with a zero-code model deployment and maintenance architecture.

NLP STUDIO: EXTRACTING CRITICAL INSIGHTS FROM UNSTRUCTURED DATA

SparkCognition NLP Studio unlocks previously unavailable insights and knowledge within unstructured data using natural language processing (NLP). Using advanced ML techniques to automate the retrieval of information, classification of documents, and content analytics, NLP Studio can automatically group documents such as records, emails, texts, reports, contracts, financial documents, and other richly formatted sources by similarity so they can be easily searched to provide deeper insights and enhance decision-making.

KNOWLEDGE STUDIO: SEAMLESSLY UNDERSTANDING DATA RELATIONSHIPS

SparkCognition Knowledge Studio transforms an organization's tribal knowledge and subject matter expertise into an AI-powered knowledge base that delivers the right insights at the right time.



Knowledge Studio expedites the encoding of knowledge from diverse sources while enhancing it with computations and AI techniques. Patented computational knowledge graph technology

enables the creation of a new class of knowledge-based applications that become invaluable decision-intelligence drivers to improve efficiency, profitability, and sustainability.

VISUAL AI STUDIO: REAL-TIME COMPUTER VISION ANALYTICS FOR ACTIONABLE INSIGHTS AND ALERTS

SparkCognition Visual AI Studio is an end-to-end computer vision platform compatible with commonplace camera types (CCTV, PTZ, mobile devices, drones, etc.). Visual AI Studio provides a low-code/no-code interface for quickly designing, building, and deploying computer vision solutions at scale, with over 125 out-of-the-box use cases and operator dashboard tools to monitor performance and configure integrated alerts, alarms, and automated triggers. Visual AI Studio allows organizations to unlock transformational value from their existing CCTV infrastructure and immediately generate actionable insights—driving significant improvements in risk management and operational excellence.

GENERATIVE AI STUDIO: MULTIMODAL, MULTI-VERTICAL, HYPER-PERSONALIZED GENERATIVE AI FOR ENTERPRISE

SparkCognition Generative AI Studio provides enterprise-ready infrastructure and workflows to develop and fine-tune private, secure, multimodal, multi-vertical, and hyper-personalized support for generative large language models (LLMs), diffusion, and general adversarial networks. With options to host on-prem or on a secure cloud environment, Generative AI Studio reduces time-to-value to operationalize generative AI applications and integrations through efficient data ingestion pipelines and ML Ops tools, containerized data privacy guardrails for model training and inference, provenance, and extensive dashboard features to manage and analyze foundation



model selection and fine-tune results per specific datasets and usage scenarios. Generative AI Studio allows SparkCognition customers to amass newfound competitive advantages by automating and augmenting tasks that hinge on task-relevant, company-specific knowledge synthesized across multiple data sources—benefiting transparency, explainability, and insight across a wide range of business workflows and outcomes.

DATA AND MODEL SERVICES: STREAMLINING TIME TO VALUE FROM DATA INPUT TO BUSINESS OUTPUT

SparkCognition Data and Model Services, the core of our AI Platform, optimizes and normalizes the multilayered processes of data management, science, and machine learning operations to accelerate time to value for our customers.

Our foundational, low-code/no-code Data and Model Services workflow moves data, whether structured, semi-structured, or unstructured, through each step of its journey toward discernment, from ingestion to storage to enrichment and contextualization. SparkCognition’s end-to-end preprocessing, segmentation, tagging, extraction, semantic parsing, classification, graph representation, and custom code extraction pipeline equates to noise reduction

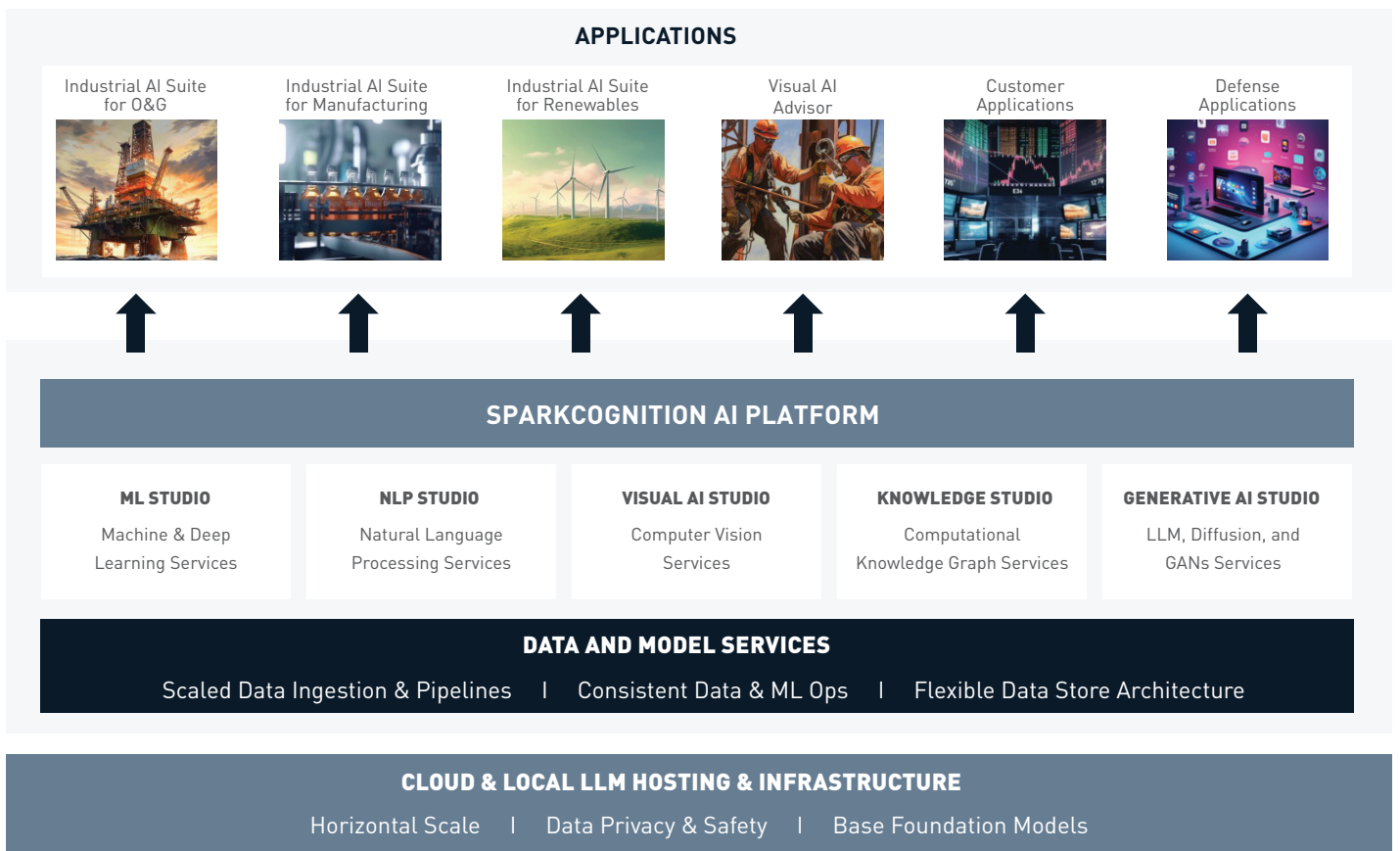
at scale, delivering instant integration capability across the entire SparkCognition portfolio of products—at which point, subject matter experts (not data scientists) can begin using the insights derived from well-trained models.

PUTTING IT ALL TOGETHER: PRODUCTIZING THE SCIENCE OF AI TO SOLVE CRITICAL BUSINESS CHALLENGES

The SparkCognition AI Platform serves as our launching pad to deploy scalable, secure, SaaS-based, configurable, and explainable products as solution vehicles for high-value problems in worldwide sectors like energy, manufacturing, transportation, defense, and more.

SparkCognition’s unique ability to produce outcomes from any data source (sensor, text, image, video, or interaction) helps industrial leaders predict anomalies, prescribe solutions, prevent cyberattacks, protect workers, optimize asset management, and identify profit gains through our commercially proven ecosystem of foundational technologies and services in support of our vision to bring highly effective vertical and horizontal AI solutions to the industrial metaverse.

SPARKCOGNITION



ABOUT SPARKCOGNITION

SparkCognition’s award-winning AI solutions allow organizations to predict future outcomes, prescribe next actions, empower people, and protect assets. We partner with the world’s industry leaders to analyze, optimize, and learn from all types of data, augment human intelligence, drive profitable growth, and achieve operational excellence. Our patented AI technologies include machine learning, deep neural networks, natural language processing, generative AI, and computer vision—enabling productivity, innovation, and accelerating digital transformation. Our solutions solve critical problems, prevent unexpected downtime, maximize asset performance, deliver net-zero initiatives, and proactively address safety. To learn more about how SparkCognition’s AI solutions can unlock the power in your data, visit www.sparkcognition.com.