

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

SparkCognition's purpose-built, IP-based, award-winning artificial intelligence platform is the foundational element enabling us to solve critical problems for the world's leading enterprise customers today.

Utilizing any data source, SparkCognition AI Platform leverages our proprietary capabilities of highly-advanced and commercially-proven machine learning, deep learning, natural language, computer vision, and knowledge graph technologies to drive business value like predicting future outcomes, prescribing next best action, 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 four 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
- 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 operators alike to gain insights with a zero-code model deployment and maintenance architecture—yet it's powerful enough to help data scientists develop more fine-tuned and custom solutions in days instead of weeks.

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 machine learning 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. NLP Studio allows organizations to analyze and leverage unstructured data that was previously too



expensive or difficult to access in order to experience new visibility, reduce operating expenses, surface actionable 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 a knowledge base that delivers the right insights at the right time.

Patented AI-powered computational knowledge graph technology enables the creation of a new class of knowledge-based applications that improve critical business functions and operational decision-making. Knowledge Studio expedites the encoding of knowledge from diverse sources while enhancing it with computations and AI techniques. Apps created with Knowledge Studio become invaluable decision-intelligence drivers, improving efficiency, profitability, and sustainability while establishing a competitive advantage that grows over time.

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

SparkCognition Visual AI Studio is an end-to-end computer vision platform consisting of software and computing hardware compatible with multiple 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. Visual AI Studio is configurable for a robust set of integrated notification alerts and automated triggers, supporting web, mobile app, email, SMS, and on-site alarms. The platform supports the continuous delivery of updated models and employs continual learning to improve performance over time, mitigating false positive and negative alerts.



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.

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

SparkCognition Data and Model Services, the core of 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

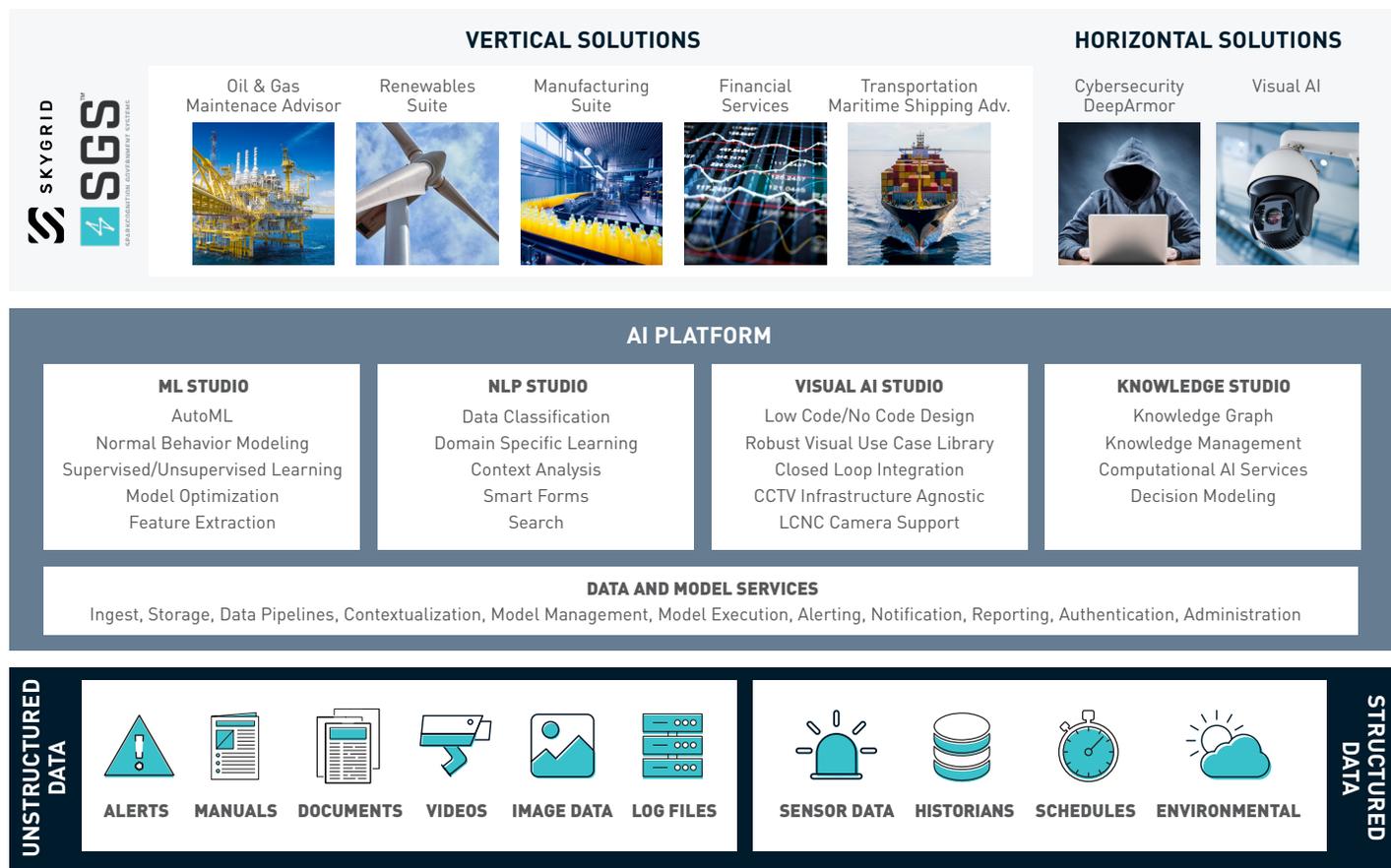
SparkCognition portfolio of products—at which point, subject matter experts (not data scientists) can begin using the insights derived from well-trained models.

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

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



By turning broad-spectrum AI platform capabilities—aided by end-to-end data and model services—into repeatable and scalable products, we empower our customers to proactively learn from their data, augment the intelligence of their teams, accelerate digital transformation, and drive profitable growth.

ABOUT SPARKCOGNITION

SparkCognition’s award-winning AI solutions allow organizations to predict future outcomes, optimize processes, and prevent cyberattacks. We partner with the world’s industry leaders to analyze, optimize, and learn from data, augment human intelligence, drive profitable growth, and achieve operational excellence. Our patented AI, machine learning, and natural language technologies lead the industry in innovation and accelerate digital transformation. Our solutions allow organizations to solve critical challenges—prevent unexpected downtime, maximize asset performance, optimize prices, and ensure worker safety while avoiding zero-day cyberattacks on essential IT and OT infrastructure. To learn more about how SparkCognition’s AI solutions can unlock the power in your data, visit www.sparkcognition.com.