



Artificial Intelligence



Machine Learning



Internet of Things



BRIGHTPOINT AI

 **Microsoft**
Solutions Partner

Business Applications

Corporate Overview

Your **Trusted Partner** in Artificial Intelligence & Machine Learning

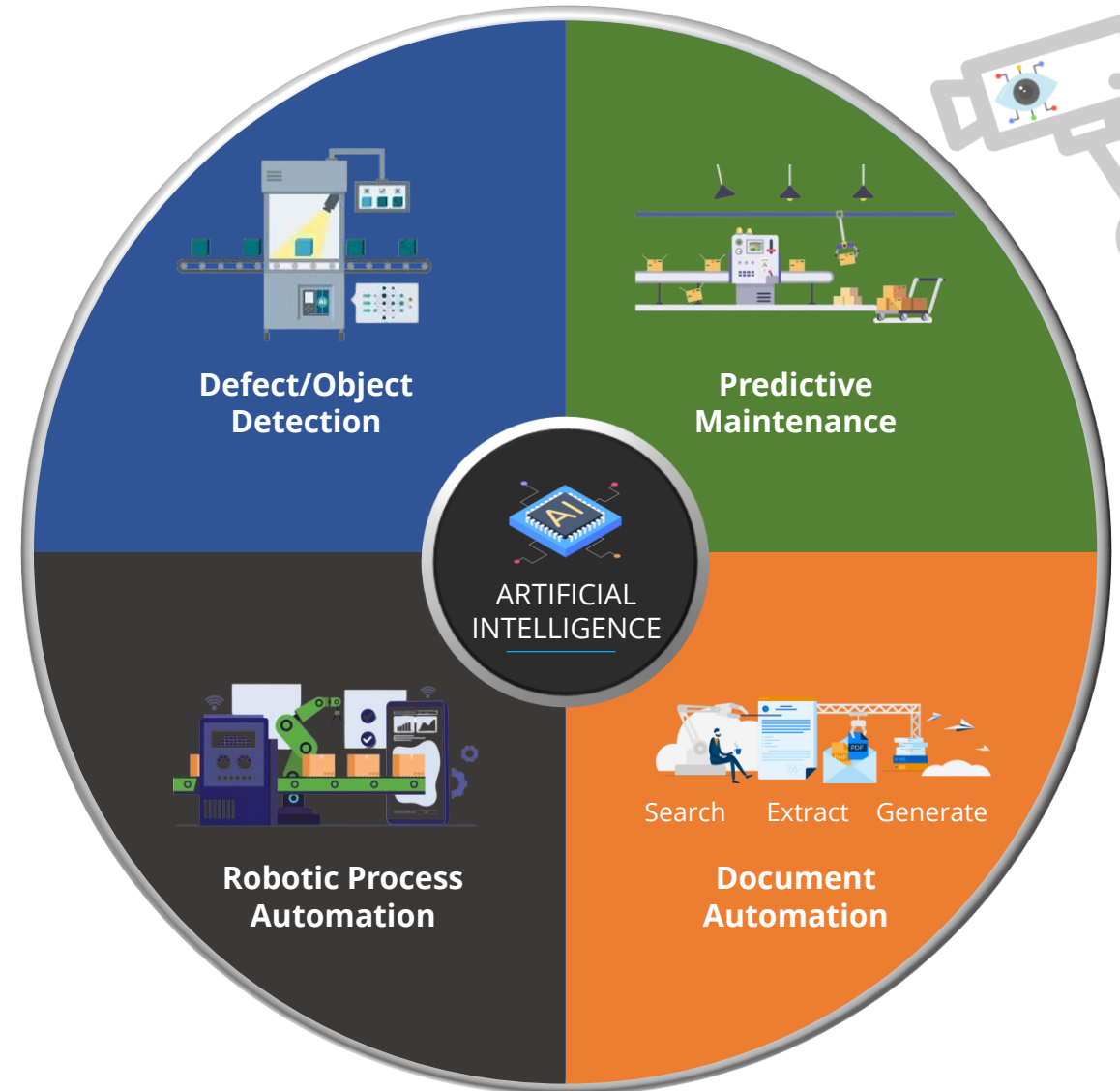


BRIGHTPOINT AI

WHO WE ARE



- Brightpoint AI provides scalable Industry-specific AI Solutions & Services that Accelerates Digital Transformation
- Our AI solutions are ready to deploy and can also be fine-tuned for Industry-specific functionality, each can be quickly personalized to solve unique business challenges
- The solutions are built with cutting-edge intelligent tools & technologies that enable machines to sense, act and learn
- We are a Microsoft Gold Partner and have delivered Microsoft Solutions and Services for over 15+years





PARTNERSHIPS

- Microsoft Azure
- Microsoft AI builder
- AWS
- Others



CAPABILITIES

- Artificial Intelligence
 - Computer Vision
 - Generative AI
- Data Science/Machine Learning
- Robotic Process Automation
- Internet of Things (IoT)



SOLUTION OFFERINGS

- Defect / Object Detection
- Document Parser
- Document Searcher
- Document Generator
- AI Assistants
- Farm Health Monitoring



INDUSTRY EXPERTISE

- Manufacturing
- Legal
- Higher Education
- Nonprofit
- Construction
- Agriculture
- Healthcare



BRIGHTPOINT AI

Our clients are at the forefront of our thinking, our preparation, our actions, and our reputation is founded on principles of customer retention and satisfaction

Our Industry Expertise can take your organization ahead & help it to **GROW** faster

DIFFERENTIATOR



Industry Awareness

Keeping pace with changing times, trends and industrialization. Look-ahead approach is key



The Right People

A passionate team with deep industry knowledge



Targeted

Global presence and specialization in AI Design & Consulting services, Custom Solutions developments



Equipped

AI-Powered Industry-leading solutions

RECOGNITIONS



Winner of 2023 **Stevie® International Business Awards (IBA)** for **Tech Start-up of the Year**



Winner of 2023 **Stevie® Awards for Women in Business for Women-Run Workplace of the Year**



Named Company of the year 2023 for **exceptional achievement in the field of AI** by **The CEO Magazine**



Brightpoint AI named a winner in the **Best Startup - Tech & AI category** at the **2023 Best of America Small Business Awards (BASA)**



Dr. Dipika selected to join **Leadership Miami®** by the **Greater Miami Chamber of Commerce**.

INDUSTRY-SPECIFIC AI SOLUTIONS

ACCELERATING DIGITAL TRANSFORMATION



GENERATIVE AI



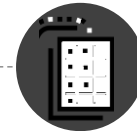
AI Assistants



Document Searcher



Document Generator



Document Parser



COMPUTER VISION



Defect Detection



Object Detection



Smart Agriculture



People / Inventory Tracker



MANUFACTURING



AGRICULTURE



LEGAL SERVICES



HIGHER EDUCATION



SMART CITIES

DEFECTGUARD (Defect Detection)

Overview

- Visual inspection solution powered by AI
- Enhances quality and efficiency in the manufacturing sector
- Utilizes adaptive AI to actively monitor and adjust to shifts in the manufacturing environment
- Incorporates unsupervised learning to classify defect types and discover novel ones



THE PROBLEM: "SPOTTING DEFECTS THE TRADITIONAL WAY"

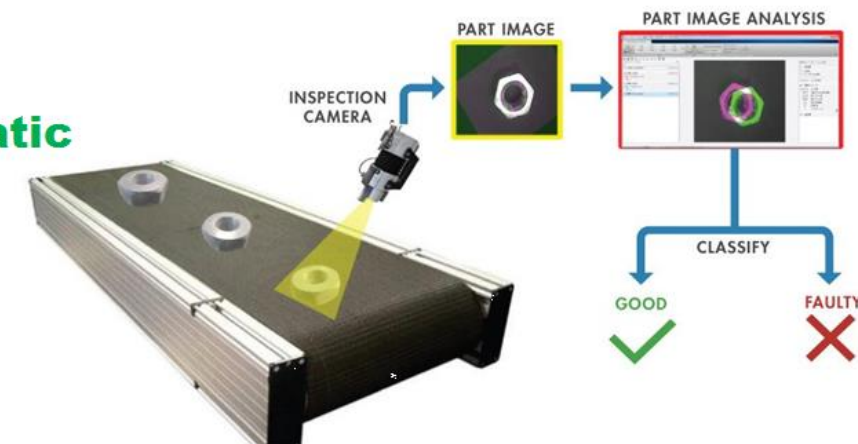
- **Manual inspection** relies on a quality engineer who evaluates the product and makes judgments based on training or experience
- **The human eye struggles with precise measurements**, especially on a small scale, and may overlook size differences between similar objects
- Despite technological advancements, the **human eye** can be deceived, making manual inspection not foolproof
- **The cost of manual inspection** is high due to the need for trained individuals

Manual



Vs

Automatic



Deep Learning Revolution

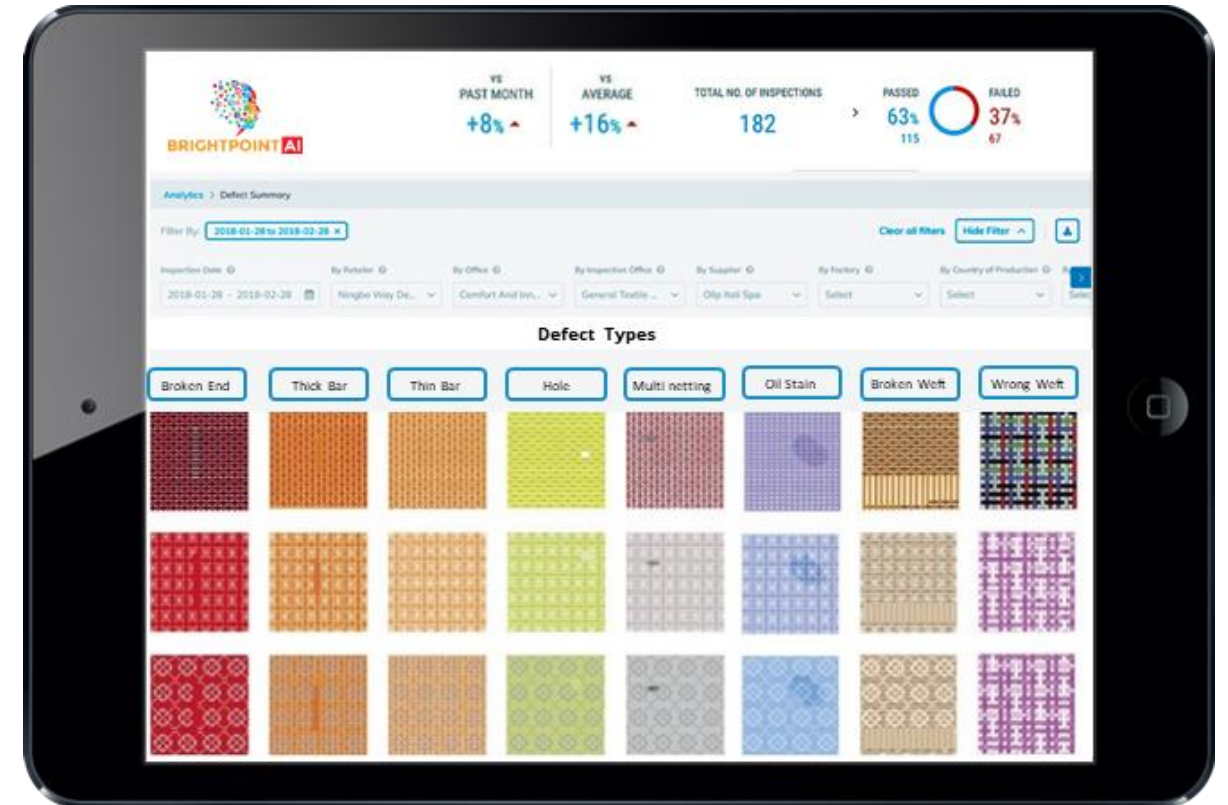
- CNNs and advanced deep learning transform textile inspections, replacing time-consuming methods

AI Precision with DefectGuard

- DefectGuard uses AI to analyze patterns, ensuring unparalleled accuracy in defect identification

Efficiency and Innovation

- AI Defect Detection brings efficiency and innovation to textile manufacturing, enhancing quality control



INSIGHTFUL ANALYTICS AT YOUR FINGERTIPS

- **Actionable Dashboards:** Translate defect data into actionable insights, predict issues, and highlight trends
- **Trend Tracking:** Analyze defect patterns over time to identify production bottlenecks
- **Granular Analysis:** Drill down into details by defect type, fabric, line, or time for targeted interventions
- **Predictive Maintenance:** Use defect data to predict machine wear, minimizing downtime
- **Process Optimization:** Visualize defect frequency to guide improvements in fabric, machine, or production
- **Custom Dashboards:** Create interactive dashboards for various stakeholders
- **Defect Reports:** Generate detailed reports for performance analysis and decision-making

Our Intuitive Dashboard Empowers Users To Make Data-driven Decisions



THE MAGIC BEHIND THE SCENES

Image acquisition involves capturing digital images or videos through cameras, sensors, or similar devices

In **preprocessing**, raw image data undergoes tasks like image enhancement, and normalization

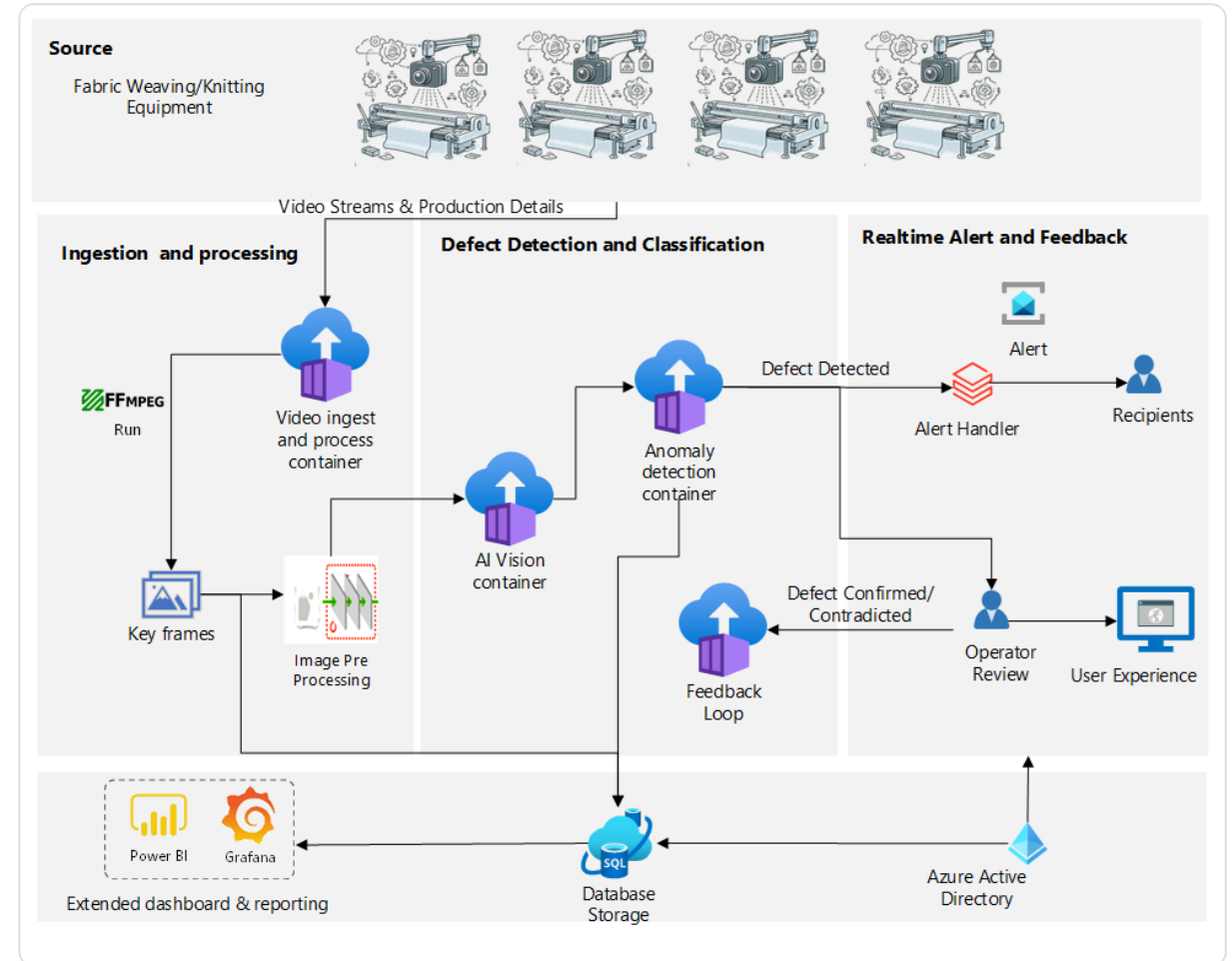
Feature extraction The algorithm extracts important features from the image, such as edges, corners, and textures. These features help to identify defects and classify objects in the image

Defect/Object recognition and tracking utilize extracted features to identify, recognize defects, and track object movements in the image

Interpretation and decision-making The algorithm analyzes the identified defects/objects and their movements to extract useful information and make decisions or predictions based on that information

AI Fabric Defect Detection Solution

Product Architecture



DEFECTGUARD (Defect Detection)

Key Benefits



→ **Tailored for Manufacturing Professionals:** Empowering them to harness AI's capabilities without the need for Data Science or programming skills



→ **Instant, Large-scale Detection:** Identifying flaws and irregularities within seconds, facilitating the integration of AI into high-volume production lines for efficient removal of sub-par products



→ **Adaptive, Self-repairing AI:** Continuously monitoring and adjusting to environmental changes that induce data drift, such as variations in lighting, camera misalignment, and production rate fluctuations



→ **Compatibility with Any Camera, Still or Video:** Capable of working seamlessly with virtually any camera providing consistent images at the required resolution, whether capturing video or still shots



→ **Swift Implementation:** Easy deployment, thanks to its user-friendly interface, data connectors, and built-in automation

DEFECTGUARD (Defect Detection) USE CASES

TEXTILE



DefectGuard can automatically inspect the fabric patterns and detect any defects such as holes, stains, or irregularities. The system can use a deep learning algorithm trained on images of good and bad fabric samples and flag any anomalies in real time. This can improve the quality control process and reduce the waste of resources and time.

FOOD



A food processing company can use a DefectGuard's to monitor the quality and safety of the food products, such as fruits, vegetables, meat, or dairy. The system can use a deep learning algorithm trained on images of different food categories and their quality standards, and identify any defects such as bruises, mold, rot, or contamination. This can ensure the compliance with food regulations and prevent foodborne illnesses.

GLASS



DefectGuard can inspect the shape, size, and appearance of the glass or bottle products, and detect any defects such as cracks, chips, bubbles, or scratches. The system can use a deep learning algorithm trained on images of various glass or bottle types and their specifications and measure any deviations from the desired quality. This can improve the customer satisfaction and reduce the risk of product recalls.

Unleash the Power of AI in your Business: Transforming Data into Intelligent Insights with Document AI



1. Document Retrieval Complexity

- Growth in document volume complicates file location.
- Impacts operational efficiency.

2. High Document Process Cycle Time

- Prolonged duration for document processing.
- Adversely impacts operational efficiency and decision-making.

3. Integration Challenges

- Difficulty in seamless integration with existing software and workflows.
- Complex hurdle for efficient document control.

4. User Adoption Hurdles

- Resistance to new processes can impede operations.

5. Security Risks

- Risk of unauthorized access, data breaches, and cyber-attacks.
- Confidential documents can be compromised.

6. Loss of Documents

- Studies show 7.5% of documents get lost and are never found.

7. Solutions

- Implement intuitive document management strategies.
- Use effective search algorithms and metadata tagging.
- Use advanced AI document management technologies.
- Ensure data consistency.
- Enhance communications.
- Facilitate a cohesive digital infrastructure.

Automating document-related tasks can significantly increase operational efficiency. For example, AI can help automate the creation of documents, review existing documents for errors, and even generate due diligence reports



In today's fast-paced business environment, managing documents has become a common challenge. Organizations face difficulties handling the expanding volume of both digital and physical documents.



Automating document-related tasks can significantly increase operational efficiency. For example, **AI can help automate the creation of documents, review existing documents for errors, and even generate due diligence reports**

CLASSIFIER

- Categorize and classify documents based on content, structure, or predefined criteria

PARSER

- Extracts structured information from unstructured documents

SEARCH

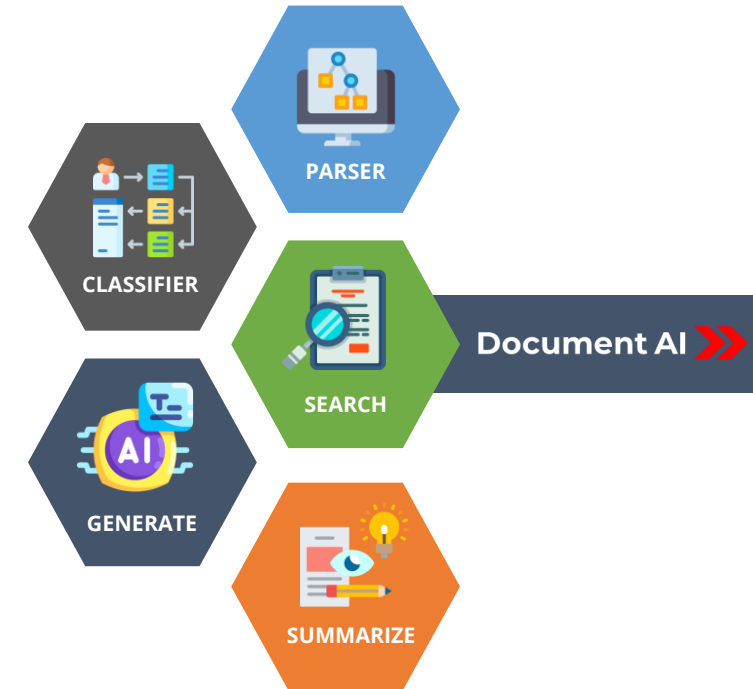
- Quickly locates and retrieve relevant information within a vast document repository

GENERATE

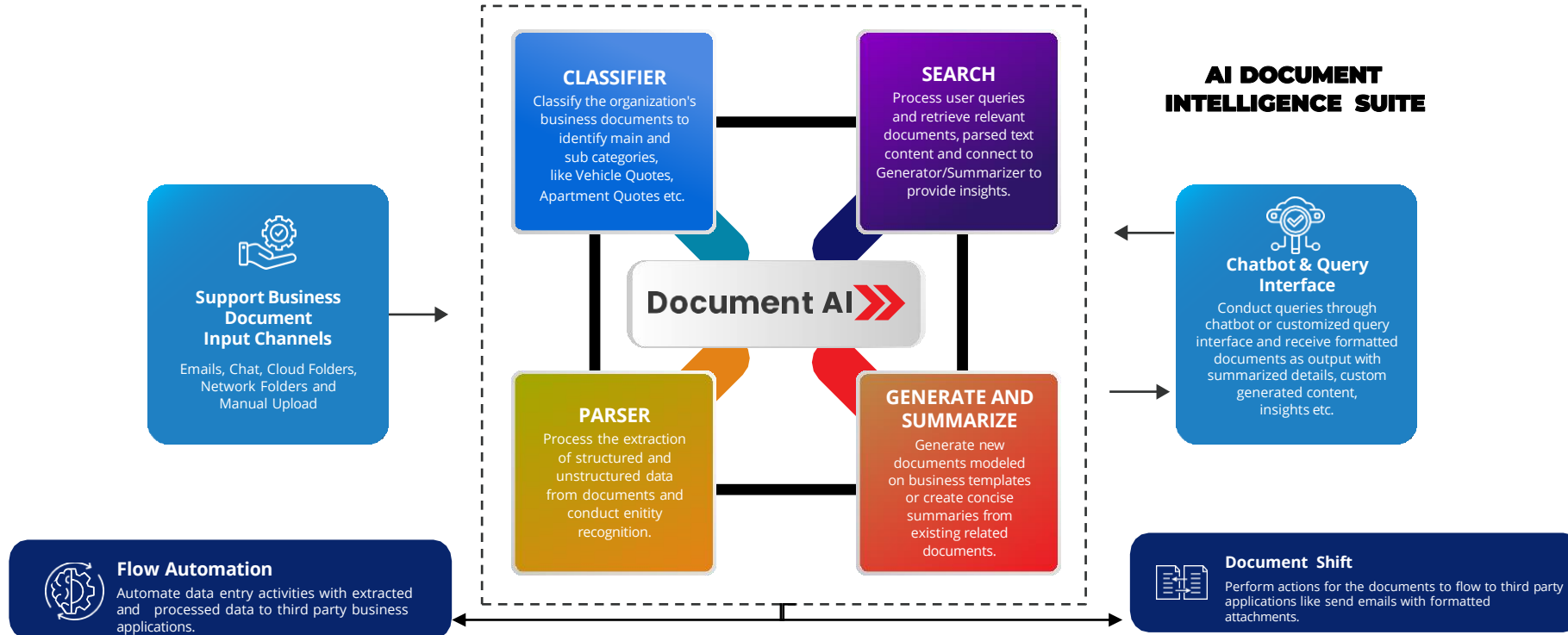
- Generate new documents, summaries, or reports based on input criteria, reducing manual efforts

SUMMARIZE

- Condense lengthy documents, providing concise summaries that capture key information and insights



How It Works



OBJECTIVE

- To improve document processing with AI-based Document Intelligence Suite. The suite has components for classification, parsing, searching, generation, and summarization

IMPLEMENTATION

- Classify documents into classes like "Claims," "Policies," or "Invoices."
- Extract structured data from unstructured documents using NLP and OCR
- Search for specific details across documents quickly and accurately
- Generate standardized reports and documents using AI algorithms and templates
- Summarize lengthy documents into brief summaries for decision-making

BENEFITS

- Higher efficiency with automated document categorization and data extraction
- Better accuracy with structured data from unstructured documents
- Faster decision-making with precise document search capabilities
- Lower effort in report generation and summary creation
- Higher productivity with intelligent document management



BRIGHTPOINT AI

Numerous Sectors Benefit From Document Intelligence Suite



HEALTHCARE

- Enhanced patient records management with automated processing of medical documents
- Accelerated insurance claims processing, reducing administrative burdens
- Improved compliance through accurate extraction of healthcare-related information



FINANCIAL SERVICES

- Streamlined KYC (Know Your Customer) processes for efficient customer onboarding
- Automated extraction of data from financial documents, reducing errors in transactions
- Enhanced fraud detection capabilities with advanced document analysis



MANUFACTURING

- Improved supply chain efficiency through automated processing of invoices and orders
- Accelerated processing of manufacturing contracts, reducing turnaround times
- Enhanced compliance with automated documentation for quality control



LEGAL DOCUMENT PROCESSING

Utilizing DIS enables the extraction of data from legal documents, including contracts, agreements, and court filings. This accelerates the review process for lawyers and legal teams, leading to more accurate analyses, cost reductions, and improved overall outcomes.



KYC DOCUMENT PROCESSING

In recent years, the "Know Your Customer" (KYC) document has become indispensable, particularly in the banking and insurance sectors. DIS plays a crucial role in extracting essential information from extensive KYC documentation, aiding these industries in gaining a comprehensive understanding of their customers and associated risks.



HUMAN RESOURCES MANAGEMENT

DIS can extract data from resumes, job applications, and various HR documents, facilitating efficient talent acquisition for organizations. This streamlined process enables HR teams to screen candidates more swiftly, identify qualified individuals faster, mitigate biases in the hiring process, and enhance overall payroll.

AI DESIGN SPRINT



AI Opportunity Spotting

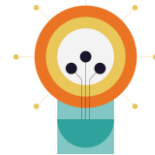


Fast-paced and Agile



Feasibility Assessment & Roadmap

AI CONSULTING



Strategic Advisory and Consulting



AI Strategy and Product Roadmap



AI Solutions Improvement

Developing successful AI projects requires a hands-on approach. At Brightpoint AI, we understand the significance of building robust guardrails and conducting ongoing model testing and training. This process ensures that biases are minimized, and the AI system performs ethically. Our dedicated support team is available around the clock, globally, to provide exceptional assistance.

Our Approach: Human-Centric Solutions

- Our solutions prioritize human perspectives over machines
- Ease of use encourages employee feedback reporting
- Corrections can be promptly made to improve system performance
- Responsibility and ethics guide our AI development process





BRIGHTPOINT AI



- Digital India Drive
- Education Through Bal Gurukuls
- Marathons for Supporting Girl Child Education

Education

Economic Development

- Vocational training & micro-credit program
- Student Leadership Program

Environment

- Waste to Knowledge Campaign
- Disaster Relief

Health & Nutrition

- Blood Donation Camps
- Hunger Eradication Campaigns

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Thank You

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