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RecoSense is an AI transformation partner working with Enterprises across the globe for AI and Data Engineering solutions. We offer a) Enterprise Data Solutions based on AI platform - DocuSense- an Intelligent document processor, b) Digital business solutions with an Unified data repository, 360-degree customer view, AI personalization and c) Business Process Automation with Knowledge Graph, Content intelligence.

RecoSense has enabled Fortune 500 enterprises in industries of Finance, Manufacturing, Aviation, Healthcare, Telco & Media. We offer domain specific automated document processing, big data management and content intelligent solutions for compliance management, process automations and customer insights.

Aerobot - Content Intelligence Solution for Aviation

RecoSense offers an AI-powered platform for document analysis and data centralization. The platform powers Process Automations and Compliance Management with MROs in the Aviation Industry. We work as an Engineering partner with our customers to build enterprise-specific solutions.

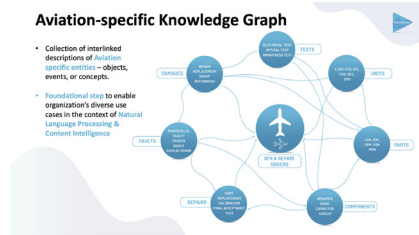
Automate the process of manuals, process forms, M&E/MRO Records, job cards - Routine/Non-routine even handwritten, Logbooks, EOs, Technician reports, SFR's, compliance and inspection reports, etc. with context and extract key Aviation metrics for analysis.

DocuSense can be a value-added service on top of your MRO software. It can enable your platform with the following features :

1. Scanned document data extraction.
2. Handwritten comment analysis.
3. Compliance management for stamps, signatures, seals, mandatory fields etc.
4. Discrepancy identification with respect to invoice commercials, scope of work, process steps, technical fault identification etc.
5. Transformation of extracted data to Spec2000 standard & integration with MRO software.
6. Auto Classification of work packs into individual work tasks & reverse compilation into a single workpack sorted by Engine ID, Task ID etc.

Knowledge Graph

The platform not just evaluates the data but also can understand context through our unique knowledge graph. Aviation-specific knowledge graph for building domain-specific ontology and co-relations between key entities.



Collection of interlinked descriptions of Aviation specific entities—objects, events, or concepts.

Foundational step to enable organization's diverse use-cases in the context of Natural Language Processing & Content Intelligence

Benefits:

1. Preventing Revenue Leakage
2. High Process Efficiency
3. Automate Process Audit and reduce Manual Effort
4. Early detection of Faults, Anomalies, Discrepancies
5. Automated Work Pack classification by Engine No, Visit no, Vendors, Type of Repair, etc.
6. It also enables collating multiple work orders to a single Work Pack assorted by the above parameters.
7. Automated Product- Part Data Correlation across Processes, Engines, and Units with our unique Knowledge Graph
8. Centralized Data Platform to automate auditing across records of Maintenance, Vendor Quotes, Compliance Reports, Engineering Division, etc.
9. Automated Metrics and Critical data extraction from Reports
10. Critical Event Detection - Red Flag- Alerting Mechanism
11. Integration with ERP/MRO system
12. High Accuracy to reduce manual errors
13. Reduce Time and Efforts
14. Save Operations Cost

Some of the use-cases that we cover are

1. Leveraging natural language processing (NLP) to interpret and validate the scope of repair orders in an efficient manner
2. Using computer vision and natural language processing to check for incomplete aircraft maintenance records. AI Transformation solutions with OCR for transcoding MRO reports and identifying any anomalies.
3. Automate and streamline repair activities, acquiring device inputs, build insights, and visualize end-use cases in custom dashboards
4. Aviation-specific knowledge graph for building domain-specific ontology and co-relations between key entities.
5. Business Process Automation for compliance-driven processes with an Alert mechanism to flag any deviations.

Aviation Use Cases

Automate Maintenance Audit

AI Transformation solutions with OCR for transcoding MRO reports and identifying any anomalies.

Damage Classification and Vendor Quote Analysis

Aviation-specific knowledge graph for building domain-specific ontology and co-relation between key entities

Centralized Data Intelligence Platform

Unified Data Repository for acquiring, processing, Predictive modeling across the Data pipeline and Access management

Analytics Module for Streamlining M&E/MRO activities

Automate and streamline repair activities, acquiring device inputs, build insights, and visualize end use cases in custom dashboards

Compliance Management with Alert Mechanism

Automate and streamline repair activities, acquiring device inputs, build insights, and visualize end use cases in custom dashboards

Energy management and monitoring system

Energy analytics module as part of EMMS to track and monitor daily energy consumption of equipment

Comparator and Recommendation Engine

Data validation frameworks to compare large volumes of data with benchmarked values, historical data, and third-party data

Predictive Analytics

Forecasting energy consumption, raw materials, resources, machines, cost, time & efforts, profitability, etc

Digital Advantages with Automation



Vision } Help enterprises achieve accelerated AI transformation leveraging AI Technology.

Mission } Transforming unstructured to structured data using NLP & Machine Learning

15 Mn+ Data Points	20+ Bn API Calls	US, India & Canada
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