In-Cabin Monitoring

Mindtech DataOps platform - Training Data Analysis and Synthetic Data creation: Superior AI vision systems through Data Lifecycle Management

Vimeo-Grab From Back Seat

Summary

Improve Vehicle Safety through In-Cabin Monitoring

The integration of cameras within the vehicle are providing opportunities to car manufacturers to increase functionality and safety and reduce vehicle BOM's.

Computer vision was initially focused on monitoring for driver tiredness, distraction and misuse of devices such as mobile phones and laptops. Now the use cases are broadening to occupancy monitoring, child presence detection. Car protection etc

Mindtech's Chameleon synthetic data creation platform can support all these use cases while providing unique capabilities such as varying lighting and environmental conditions within the cabin and through the use of Mindtech Digital Humans varying the look of the people within the car and their clothing.

Sophisticated annotation data can be provided such as head pose, eye gaze, DLIB69 and key point skeleton data.

Mindtech Platform Benefits

- **NIR camera support as well as RGB**
- **Highly accurate animations from motion capture for event simulation**
- **Hybrid real and synthetic datasets for increased variations**
- **Multi camera support for advanced algorithm development**
- **Fully privacy compliant data to ensure legislation compliance**

Mindtech Quick Facts

- Dolphin - Delivering up to 90% reduction in data costs with improved model performance
- Chameleon - up to 10x faster creation of domain-matched, fully annotated vision images with no IP or privacy issues
- Training-ready data packs - IP-safe, privacy-compliant, domain-specific, images and annotation data for rapid AI vision system development

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Document Deep Learning

Mindtech DataOps platform - Training Data Analysis and Synthetic Data creation:

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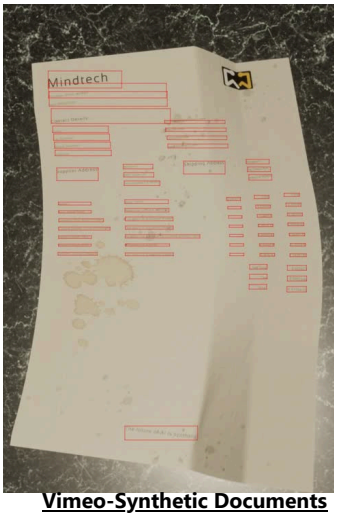
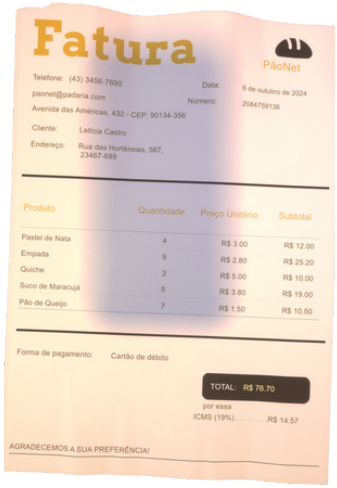


Vimeo-Synthetic Documents



Summary

Unlocking the Potential of Document Automation with Synthetic Information

Mindtech's Octopus document creation platform enables accurate creation of synthetic documents for AI model deep learning training . This approach eliminates the need for sensitive real-world data while ensuring GDPR compliance. As a result, it creates diverse, high-quality datasets that simulate real-world conditions, thereby reducing privacy risks and improving training effectiveness.

Octopus can also create fine grained warping, aging, fading and damage of documents to ensure superior AI model performance in real world conditions. The documents can also be placed in real world environments typical of those seen where consumers are taking photographs of documents. Lighting, skewing of the document and over exposure can be faithfully replicated

Mindtech's Octopus document creation platform delivers superior AI models with increased precision and reliability of document recognition and document deep learning

Mindtech Platform Benefits

- **Facilitate smooth data transfer across different document types, supporting contracts, loans, and other processes**
- **Generate a diverse range of synthetic documents to enhance training robustness**
- **Train AI on documents with warping, aging, and damage for superior accuracy**
- **Ideal for sectors like finance, insurance, and legal, requiring accurate document handling**
- **Synthetic documents remove privacy concerns, ensuring GDPR compliance**

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