Document Forgery Detection

The Document Forgery Detection module is a specialized feature of the Automation Hero Platform_, designed to automatically detect and prevent document forgeries. With a keen focus on scanned documents, this feature serves as an effective tool for organizations to enhance their security protocols and uncover fraudulent activities.

Key Features

Document Forgery Detection employs a multi-faceted approach to the w analysis of documents.

- The first layer is metadata analysis, where the EXIF and other metadata of a document are scrutinized to identify any signs of manipulation, such as the usage of software like Photoshop.
- The second layer is scan fingerprint analysis, where advanced AI models analyze the document to detect barely visible alterations.
- The third and final layer is copy-paste analysis, aimed at identifying identical characters on a document that may signify a forgery.

It's worth noting that this feature is specifically tailored for paper document scans and is not applicable to vectorized formats or photos. Visibility and explainability are key for document forgery detection. Every analysis comes with heat maps and visualizations indicating which parts of the document look suspicious. Additionally, you can use confidence scores to automatically filter and route the results.
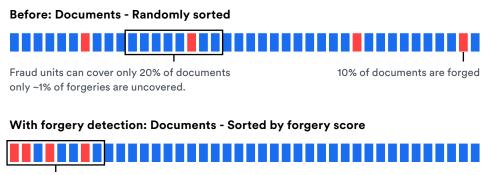
Benefits

The Document Forgery Detection module is not just an add-on; it's an integral component that sits perfectly within the wider ecosystem of the Automation Hero Platform_. This seamless integration removes the need for disparate systems, creating a cohesive solution for intelligent document processing. The technologies deployed are at the forefront of AI, ensuring that you are leveraging cutting-edge capabilities in forgery detection. The platform is designed for scalability, fitting the needs of growing businesses. Compliance is also a strong suit, with SOC2, HIPAA, and GDPR standards met to ensure data integrity.

Increase efficiency of fraud units

Fraud units are unable to verify each document for forgeries within the expected time frame. Usually, random subsamples are reviewed that result in low detection rates.

Automation Hero's forgery detection comes with a forgery score for every document. This can be used to focus the fraud unit's efforts on documents that are actually forged.

Before: Documents - Randomly sorted

Fraud units can cover only 20% of documents only ~1% of forgeries are uncovered.

10% of documents are forged

With forgery detection: Documents - Sorted by forgery score

Fraud units focus on the documents with the highest forgery score. Most forgeries can be uncovered.

Deployment & System Requirements

The platform is cloud-based and supported on AWS and Azure. Designed for scalability, the system can grow both horizontally by seamlessly adding computational nodes and vertically by enhancing processing speed through GPU integration.

Pricing

Document Forgery Detection is part of the larger Automation Hero Platform_, and pricing is based on a per-node licensing cost. Additional service packages are available for clients seeking enhanced support and specialized implementation. The support framework is tailored to meet a variety of needs. For basic support, you can use Automation Hero's tech support and documentation, as well as regular check-ins with our account managers. For organizations requiring specialized guidance, Automation Hero provides customized support packages that offer in-depth use case implementation support.

How to Get Started

Starting with Document Forgery Detection is a streamlined process. The first step is to set up a data connection to the data store or email inbox containing the documents to be analyzed. Next, an output mechanism like a human-in-the-loop interface is established for a detailed review of flagged documents. A workflow is then created, integrating data inputs, forgery detection functionalities, and additional business logic for fraud determination, which then routes the results to your chosen output interface. Once set up, the flow can either be scheduled to run at regular intervals or transformed into a RESTful microservice.

Scope and Future Plans

Document Forgery Detection is currently focused on scans of paper documents and does not cover manipulations in photos (such as those of damaged cars) or purely digital, vectorized documents. Our team is currently working on developing solutions for use cases that are beyond the scope of today.

Ready to safeguard your organization against document fraud and manipulation?

Reach out to schedule a discussion with our experts.

Schedule a call