

Newgen **Intelligent IDXtract**

Enable identity document data extraction and redaction, leveraging artificial intelligence and machine learning

Your customers share their identity documents along with the application forms for various processes such as KYC, customer onboarding, account opening, loan application, health insurance processing, claims processing, and others. The identity documents are a rich source of valuable information, which can be leveraged to gain meaningful insights. It is also important to protect sensitive information within these documents and avoid any data privacy breaches.

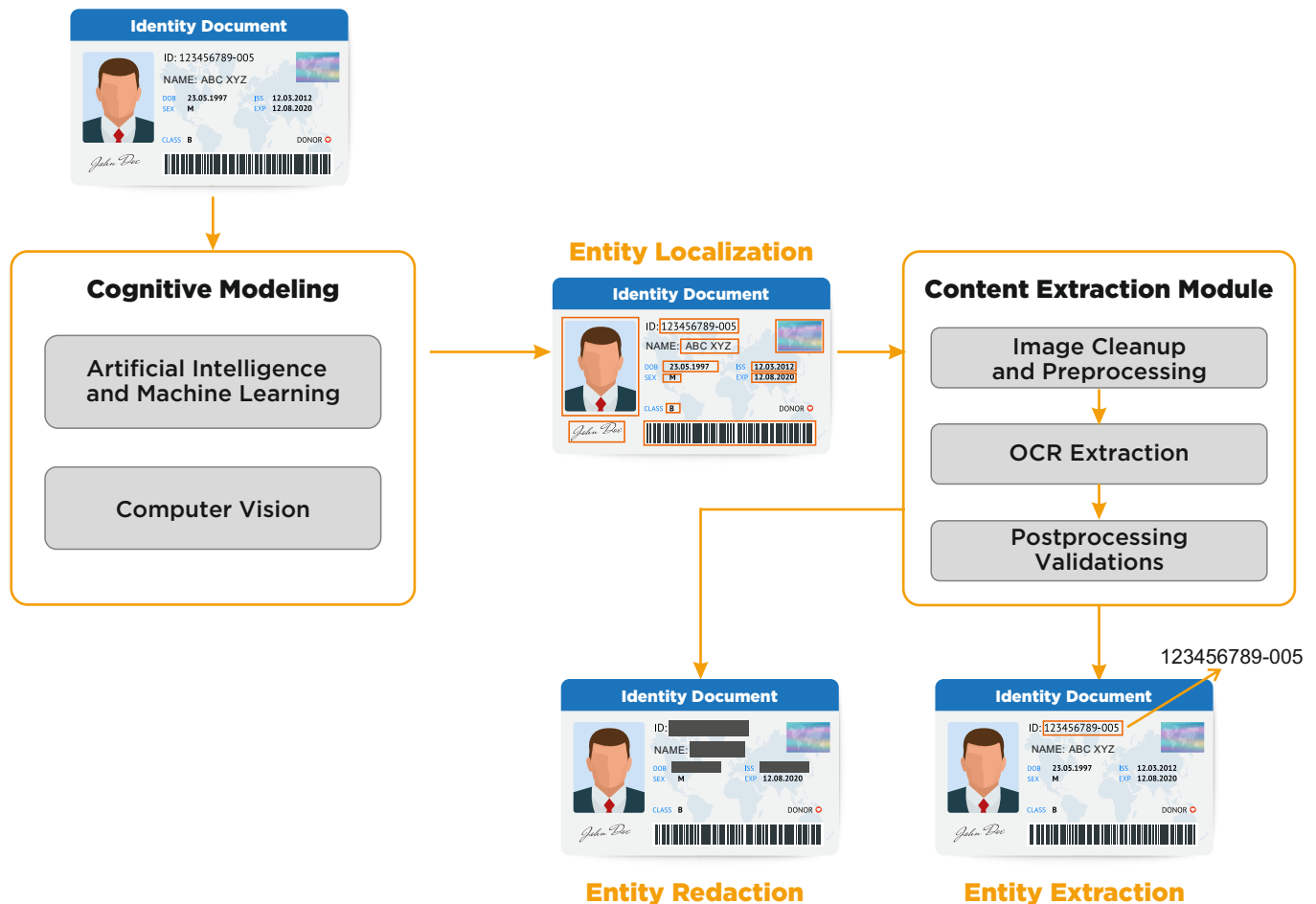


Newgen Intelligent IDXtract

Newgen Intelligent IDXtract software enables enterprises to identify, extract, and redact information from an identity card while ensuring its security and privacy.

The software is a computer vision-based model that identifies the presence, location, and type of one or more entities on an identity document. It leverages artificial intelligence (AI) and machine learning (ML), powered by computer vision techniques and rule-based capabilities.

How Newgen Intelligent IDXtract Works?



Key Features

- **Entity Recognition** - Identify various entities in an identity document such as name, date of birth, ID number, address, etc.
- **Entity Localization** - Get the location coordinates of identified entities for easy extraction and redaction
- **Textual Entity Extraction** - Extract textual entities using OCR, post-processing of the identity document image
- **Entity Redaction** - Redact localized entities using the location coordinates for hiding personal identifiable information (PII)
- **Confidence Percentage** - Calculate localization and OCR confidence percentages to define correctness of zone identification and extraction respectively
- **QR Code and MRZ Extraction** - Recognize and locate the machine readable zone (MRZ) and QR code in identity documents, decipher the encrypted information, and extract the desired entities
- **Customized Models** - Build new, use case-specific analytics models, using a collection of samples



Use Cases

Entity Localization

Entity Extraction

Entity Redaction

Other applications:

- **Data Discovery and Awareness** - Eliminate dark data by automatically identifying and extracting information from identity documents, which otherwise remains hidden
- **Auto-form Filling** - Use extracted entities to auto-fill forms for processes, such as KYC and customer onboarding, reducing the required time and effort
- **Validating Identity Documents** - Verify the validity of an identity document by identifying the “Issue Date” or “Expiry Date”
- **Risk Management** - Ensure compliance with regulations such as the General Data Protection Regulation (GDPR) by identifying and redacting PII
- **Metadata Enrichment** - Store extracted entities as metadata for easy search and retrieval



Why Newgen Intelligent IDXtract?

Recognizes all trained entities on identity documents, including the ones that do not follow a set pattern

Measures the correctness of entity identification through confidence percentage

Does not require labels for recognizing entities

Works effectively on all images - mobile captured, scanned, or others

Works on different layouts of the same identity document, having minor variations, while ensuring accuracy

Enables localization and redaction of entities independent of the language(s) used in the identity documents



About Newgen

Newgen is a leading provider of low code digital automation platform. Globally, successful financial institutions, insurance, government, and shared services organizations rely on Newgen's industry-recognized products and applications—to manage their processes (BPM), content (ECM), and communications (CCM)—for connected operations. From customer onboarding to service requests, from loans and deposits to underwriting, and many more, Newgen's industry applications transform business-critical operations with agility. Newgen's cloud-based platform enables digital transformation initiatives for superior customer experience, optimized costs, and improved efficiencies.

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