



# Valida

## AI-based document forgery detection for fraud prevention

**Valida by Gradiant assesses the trustworthiness of digital documents to prevent fraud in on-boarding and KYC processes.**

Our technology allows companies to offer an extra level of security and prevent fraud by analysing documents and detecting digital forgeries through AI-based forensic techniques.

- ✓ **Automatically detects digital forgeries in ID documents, invoices, payslips, etc.**
- ✓ **Automatically detects whether a document has been captured from a screen display**
- ✓ **Supports all types of ID documents and nationalities:** passports, national ID documents, driving licenses, etc. without the need of adaptation nor specific training
- ✓ **Does not require connection to external databases (e.g. ID document databases) to detect modifications**
- ✓ **Does not require the original document to detect modifications**

## Functionalities

### Validation modules

- ✓ Forgery detection in digital documents: ID documents, invoices, payslips...
- ✓ Detection of documents displayed on screen

### Input document formats supported:

- ✓ JPEG, PNG, BMP, TIFF images
- ✓ PDF files

## Performance

### Accuracy on real-world data

- ✓ Forgery detection:
  - Accuracy = 83.63%
- ✓ On-Screen detection:
  - Accuracy = 91.6%

### Time consumption

- ✓ For a reference server:
  - i7 4790S
  - RAM: 16 Gbytes.
- ✓ **PDF: ~0.6 s** for a single page PDF file
- ✓ **Image:**

	<b>~3Mpix</b>	<b>~5Mpix</b>	<b>~10Mpix</b>
<b>Forgery detection</b>	2.8 secs	2.9 secs	4.6 secs
<b>Screen detection</b>	0.7 secs	1.3 secs	2.8 secs

## Integration

REST API with sample code for multiple platforms and languages

Code samples provided for Shell, HTTP, JavaScript, Node.js, Ruby, Python, Java, and Go  
SaaS / Dedicated Cloud / On-Premise Deployment

## Deployment requirements

**OS:** Linux 64 bits (recommended Ubuntu 18.04).

**Programming language:** Python3.6

**Hardware Requirements:** Intel x64 architecture.