

# Release & Updates

10 June 2024

## Service Update

[Indonesia] OCR KTP Check



## / About

We have significantly enhanced the accuracy of our **ID Document OCR service for KTP checks (OCR KTP Check)** in latest version 3.2. This update includes notable improvements to the text recognition mode and additional data validation checks to ensure result validity.

With these enhancements, customers can expect over 99% accuracy in key fields, including NIK, gender, date of birth, and expiry date.



### OCR KTP Dataset

Developed in-house to benchmark and enhance the accuracy of our OCR technology, the OCR KTP dataset of 1000 mobile phone-captured KTP images consists of real transactional data collected from ADVANCE.AI platform, which is used to assess how well an OCR technique performs on the images from real scenarios.



### OCR Accuracy Evaluation

Using the OCR KTP dataset ensures our technology performs optimally under various conditions, such as lighting variations, perspective transformations, rotations, blurriness, and card quality issues. By rigorously testing and refining our OCR technology, we guarantee top-tier performance and reliability for our customers.

## / Action required

No action required for the update. Update will be executed by ADVANCE.AI on **13 June 2024, 18:00 (GMT+7)**. For more information, please view API document.

→ [Link to API Doc](#) ←



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[sales@advance.ai](mailto:sales@advance.ai)

## / Evaluation Metrics

To evaluate the accuracy of OCR, the accuracy of different fields is used. Accuracy is defined as follows.

### Accuracy of the current field =

$$\frac{\text{Number of correctly recognised text in the current field}}{\text{Number of human-eye-identifiable text in the current field}}$$

If one character or digit is wrongly identified by the OCR technology, the recognition of this field will be considered false.

## / Performance / Results

### Fields with >99% accuracy^

Field Name (Bahasa)	Field Name (English)	Accuracy
kewarganegaraan	nationality	99.90%
jenis_kelamin	gender	99.80%
berlaku_hingga	expire_date	99.79%
agama	religion	99.69%
provinsi	province	99.58%
status_perkawinan	marriage	99.39%
kota	city	99.29%
nik	id	99.08%

### Fields with 93-99% accuracy^

Field Name (Bahasa)	Field Name (English)	Accuracy
kecamatan	region	98.83%
rt_rw	rt_rw	98.80%
kel_desa	village	98.63%
pekerjaan	occupation	98.46%
tempat	place_birthday	97.95%
nama	name	97.65%
gol_darah	blood_type	96.95%
alamat	address	93.95%



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