Using AI techniques to build intelligent software robots.

Can such work be assigned to responsible tasks?



# Intelligent automation - IPA - expands the number of tasks for robots



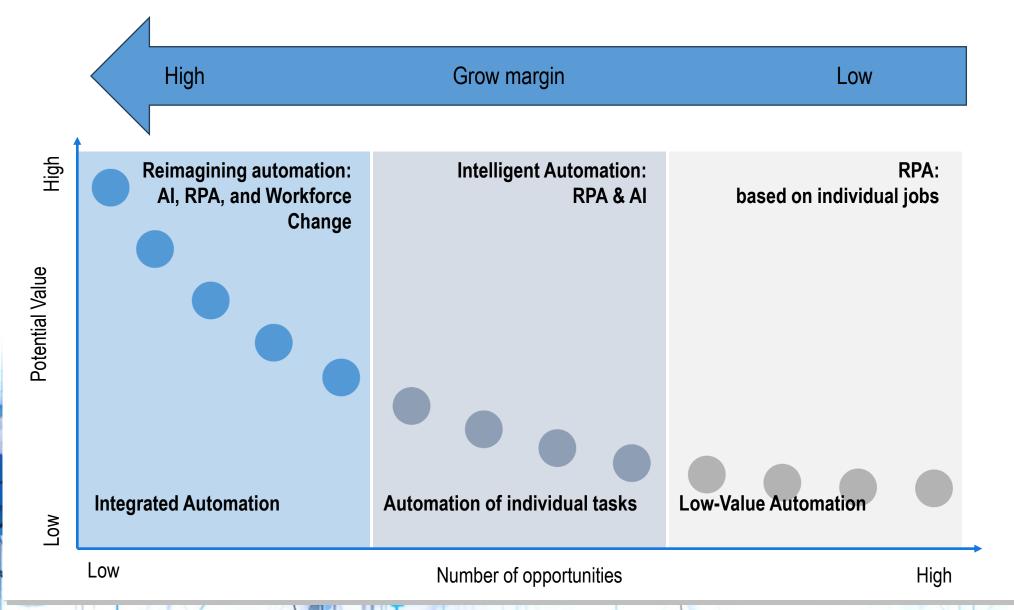
### Robots have done it before:

- Logged into applications
- Move files and folders
- Scrape data
- Monitor
- Go through emails
- Fill out forms
- Read and enter information into databases
- Copy and paste data



# From Simple Robotization to Intelligent Automation





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## Robots are doing now:

- Extract data from documents
- Categorize e-mail
- Work in a virtual workplace (VDI)
- Understand semi-structured and unstructured data
- Perform analysis of business processes and individual tasks
- Convert speech to text
- Communicate with customers (chatbots)

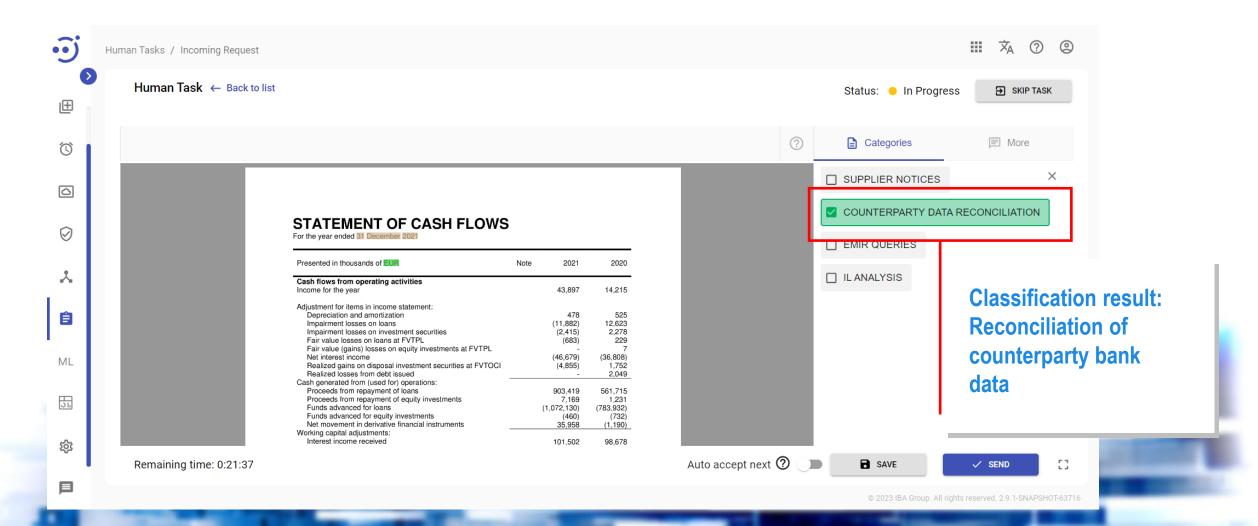


RPA+AI=IPA



# The Task of Classification





# Examples of the Classification task



## Classification of topics

ML algorithms determine the subject of an email, such as "loan request", "invoice question" or "complaint"

### Result

#### Save time

Machine learning processes incoming mail faster and more efficiently, freeing up employees' time for more strategic tasks.



# **Examples of the Classification task**



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## Message Prioritization

The system automatically prioritizes each email, helping the bank respond faster to urgent requests.

#### Result

## **Risk mitigation**

Automated classification helps not to miss important requests or complaints, reducing risks for the bank.

# **Examples of the Classification task**



## Classification of topics

ML algorithms determine the subject of an email, such as "loan request", "invoice question" or "complaint"

## Message Prioritization

The system automatically prioritizes each email, helping the bank respond faster to urgent requests.

## Request Routing

ML determines which department or employee should be contacted to resolve the issue more effectively.

#### Result

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#### Result

## Risk mitigation

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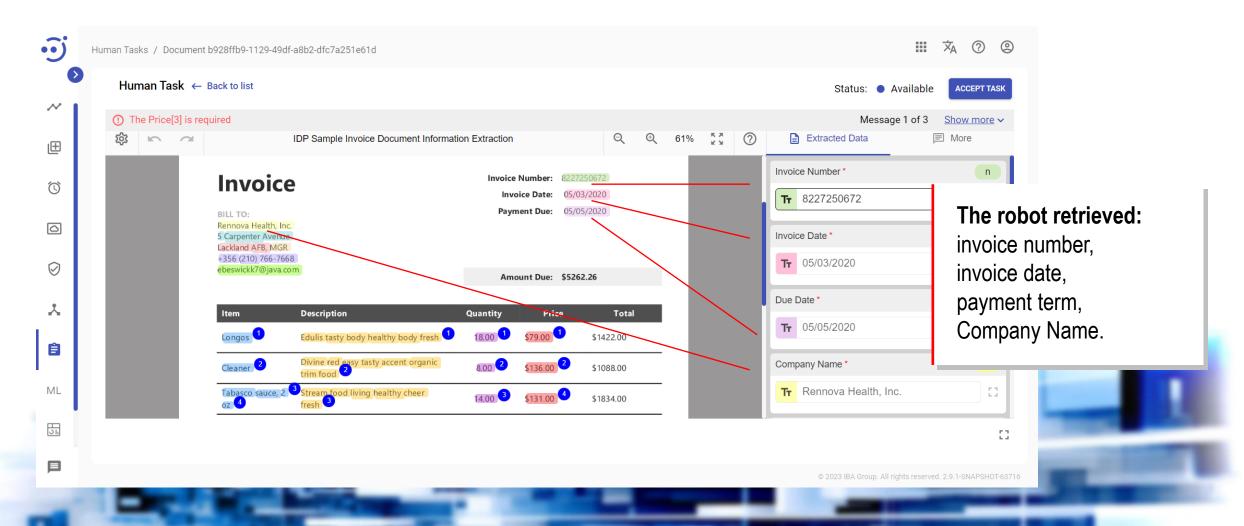
#### Result

### Improve customer service

The bank can respond more quickly to customer requests, ensuring a high level of service.

## The task is to extract information





# Examples of the Information Extraction task



### **KYC** procedure

Algorithms automatically extract the customer's data from uploaded documents, such as a passport or driver's license, to verify the authenticity of the information.

#### Result

### **Compliance Automated**

KYC helps the bank comply with regulations and security standards, reducing the risk of misidentification of customers.

# Examples of the Information Extraction task



### **KYC** procedure

Algorithms automatically extract the customer's data from uploaded documents, such as a passport or driver's license, to verify the authenticity of the information.

### Extracting data from fin Report

ML algorithms can automatically extract data on financial metrics such as income, expenses, and profit and loss from financial statements in PDF format.

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### **Compliance Automated**

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#### Result

### Accuracy and minimization of errors

ML algorithms ensure high accuracy of data extraction, reducing the risk of human error.

# **Examples of the Information Extraction task**



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### Extracting data from fin Report

ML algorithms can automatically extract data on financial metrics such as income, expenses, and profit and loss from financial statements in PDF format.

### **Transaction Monitoring**

Algorithms analyze textual descriptions of transactions in statements and extract key data, such as the amount, date, and description of the transaction.

#### Result

### **Compliance Automated**

KYC helps the bank comply with regulations and security standards, reducing the risk of misidentification of customers.

#### Result

### **Accuracy and minimization of errors**

ML algorithms ensure high accuracy of data extraction, reducing the risk of human error.

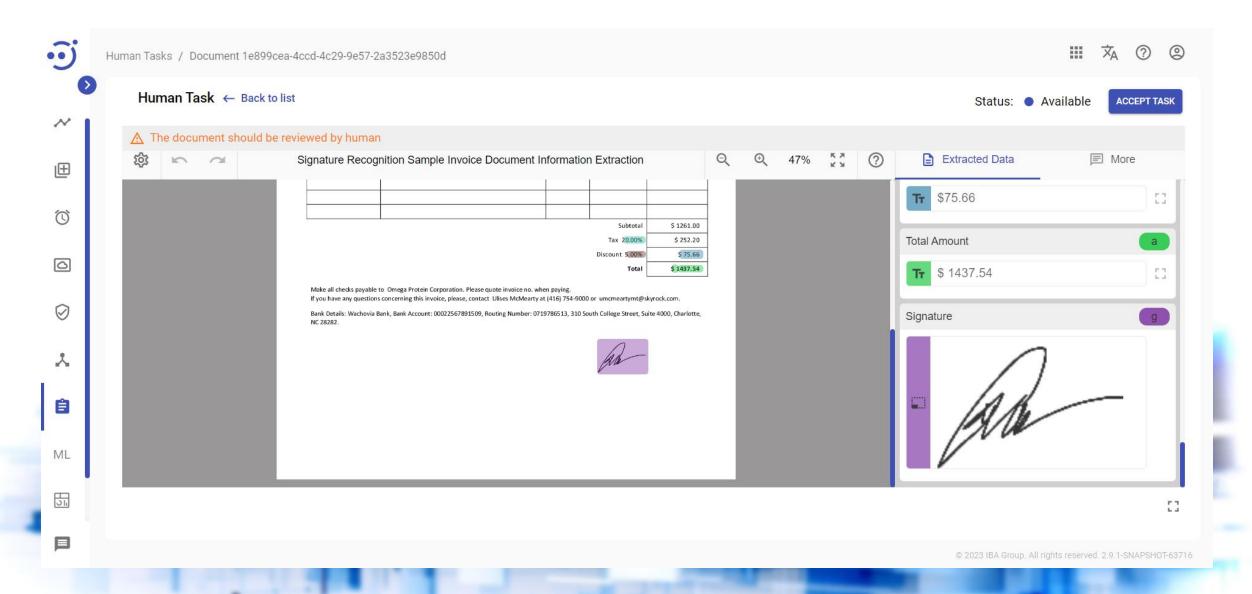
#### Result

#### **Automation of routine tasks**

Extracting data from unstructured documents allows you to automate processes that previously required manual processing.

# The task is to identify and recognize signatures





# Examples of the Recognize Signatures task



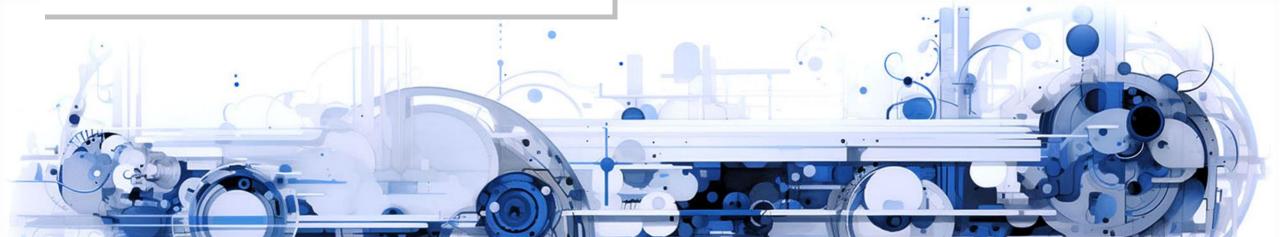
## Extracting Signatures from Documents

Machine learning algorithms extract signatures from documents of various formats, such as bank agreements, statements, or contracts.

### Result

## **Efficiency & Automation**

The bank automates the verification of signatures, speeding up the process compared to manual verification of documents.



# Examples of the Recognize Signatures task



## Extracting Signatures from Documents

Machine learning algorithms extract signatures from documents of various formats, such as bank agreements, statements, or contracts.

#### Result

### **Efficiency & Automation**

The bank automates the verification of signatures, speeding up the process compared to manual verification of documents.

## Detecting the Authenticity of a Signature

ML algorithms help determine whether a signature is authentic by comparing it to previously stored samples.

#### Result

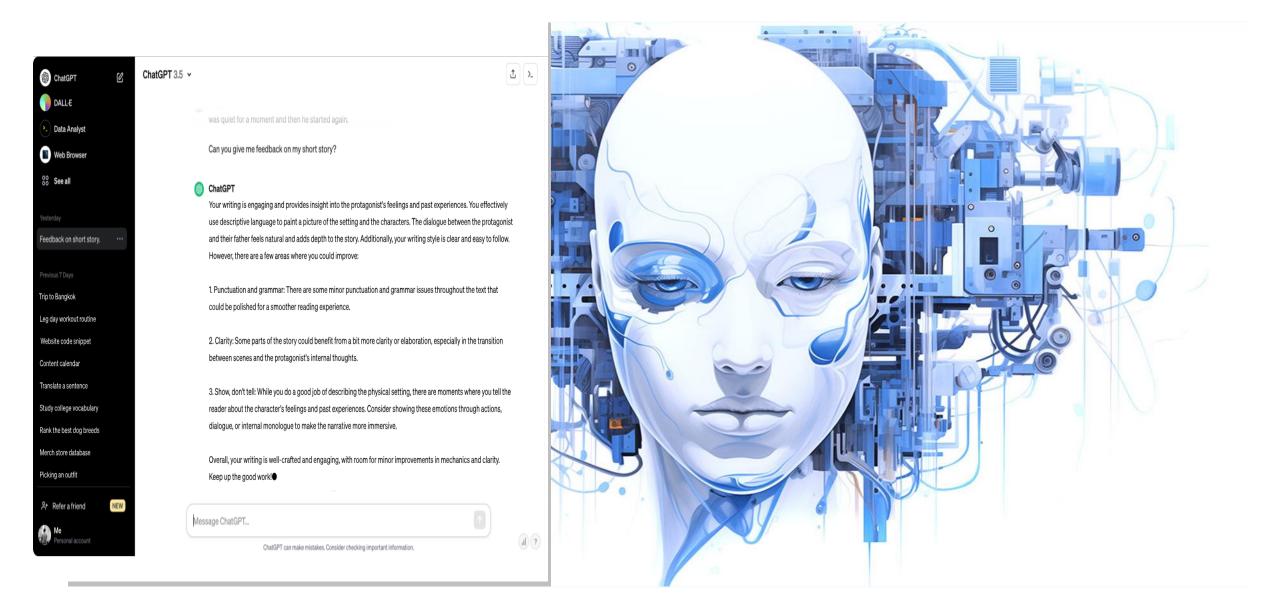
## **Security & Fraud Prevention**

The use of Signature Recognition ML helps the bank prevent signature forgery and reduce the risk of fraud.



# GPT Models in Banking: A Revolution in Artificial Intelligence





# The main tasks solved by generative AI today



Generation with search add-on

A chatbot synchronized with marketing materials helps customers quickly get information on the services they are interested in.

A chatbot helps a bank employee to quickly receive answers on internal regulatory rules **Content Creation** 

Generating the text of sending offers to customers

Generate scenarios that represent possible fraud scenarios for which you have a limited amount of data. Using such data to train another Al model expands the range of cases that the model can recognize.

**Summarizing information** 

Summing up the terms of insurance, loan agreements, contracts for the client.

**Data Extraction** 

Processing of financial reports, acceleration of audits.

**Generating Pins** 

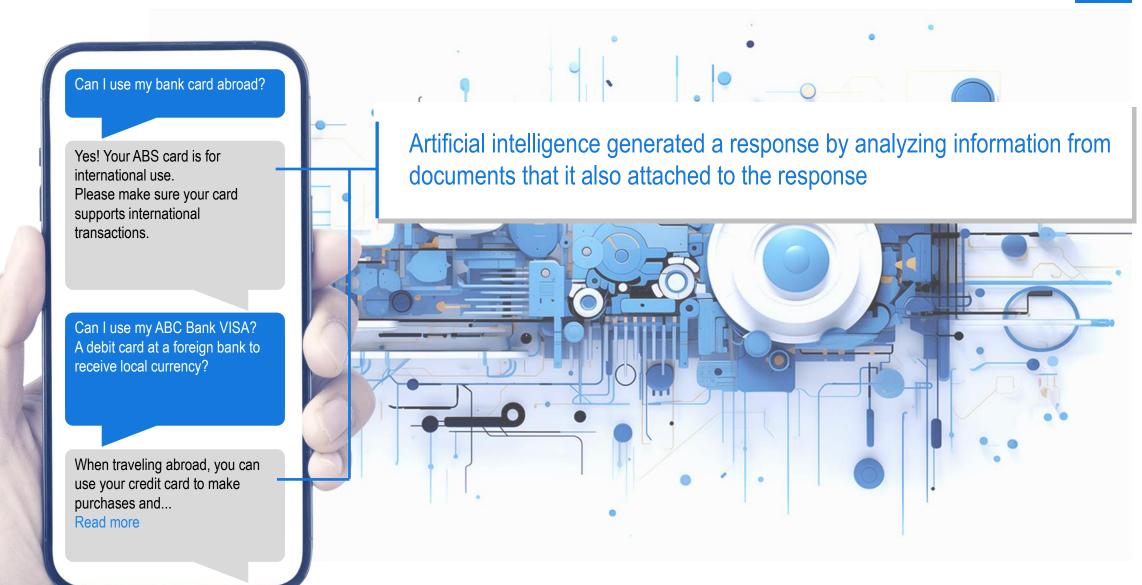
Analysis of texts and prediction of possible risks.

Classification

Determining the sentiment of comments in social media. networks in response to marketing campaigns

# Generation with search add-on





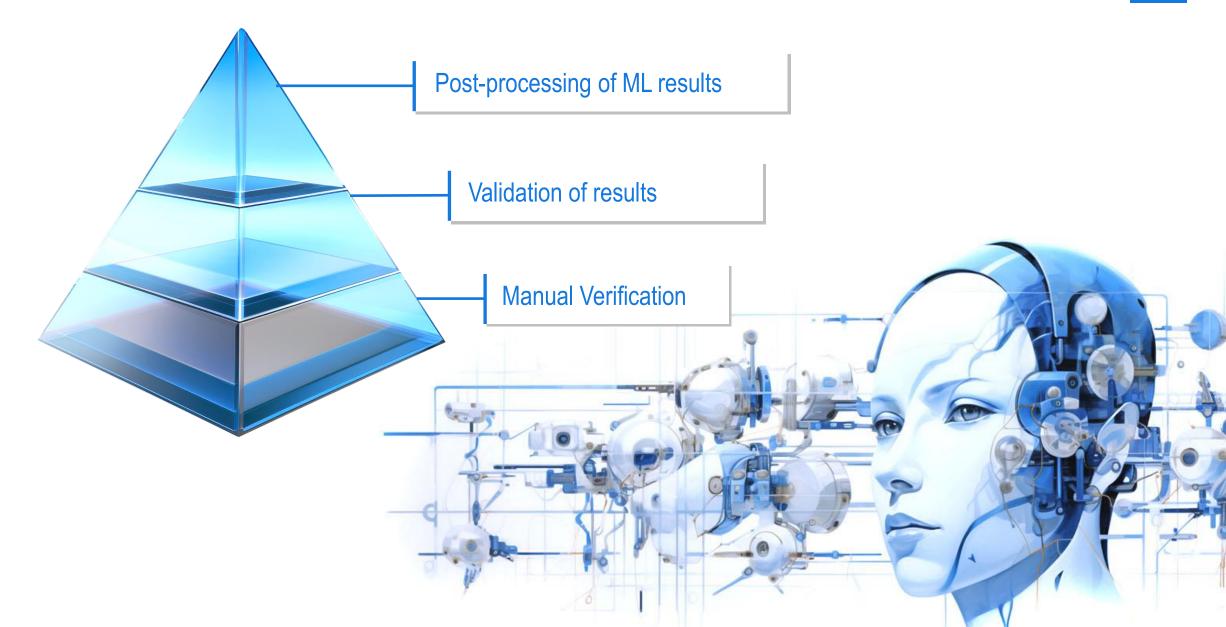


What are the tasks
Can Artificial
Intelligence Be
Trusted?



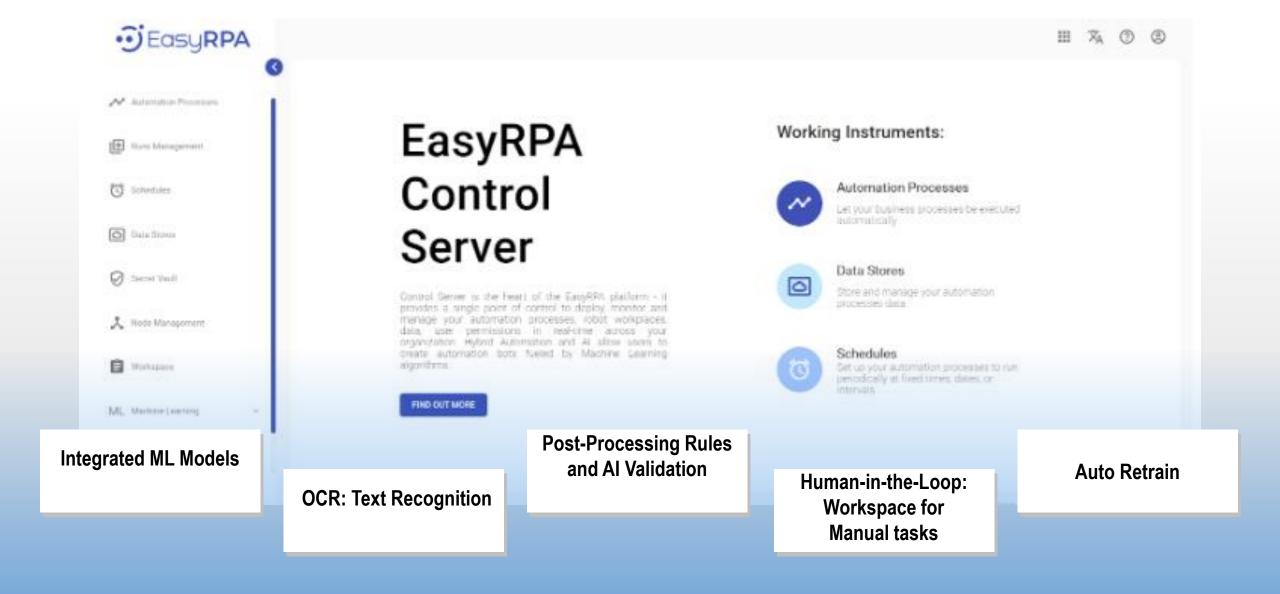
# Entrust any task, but control!





# The solution is the use of Al-oriented RPA platforms





# Questions?





Sergii Baibara
CEO of IBA Ukraine
S.Baibara@ibagroup.eu
easyrpa.eu
ibagroupit.com



