

# DEEP COGNITION

**ARTIFICIAL  
INTELLIGENCE.**

**REAL RESULTS.**

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Overview and Summary:  
PaperEntry

## 01

## SCOPE

*“We are automating data entry through the use of artificial intelligence to assist businesses in increasing productivity and efficiency”*

Deep Cognition is a team of talented technology experts, entrepreneurs, veteran industry professionals, and lifelong learners that have joined together to make artificial intelligence easily accessible for everyone.

Founded in 2017 with the vision of building an AI-powered platform that could change the programming space, Deep Cognition, together with its users and engineers, has worked to develop user-friendly technology.

Deep Cognition strives to continually create AI solutions that digitally transform businesses by eliminating mundane tasks, saving time and resources.

Start automating data entry through Deep Cognition's software PaperEntry, continue reading to learn more.



# 02

## ABOUT PAPERENTRY



An Artificial Intelligence data extraction software that allows you to automatically extract the data from your documents and the structured data directly entered into your TMS/ERP system.

A Few Examples:

- Bill of Landings (BOL)
- Commercial Invoices
- AP Invoices
- Packing Lists
- Arrival Notices
- Receipts
- Custom Documents

## CURRENT INDUSTRIES

Transportation and Logistics

Accounting

Oil and Gas

Healthcare and Pharmaceuticals

# 03

## HOW IT WORKS



### UPLOAD

Send your documents to Deep Cognition through email, upload to a shared drive, drag it directly into PaperEntry user interface, or use API integration.



### EXTRACTION

Our AI goes through a multi-step process to extract data. The process extracts key-value pairs, processes tables, and comprehends embedded information.



### VALIDATION

Data is checked for accuracy by our state-of-the-art validator software. The data can be validated by your team or conducted by Deep Cognition.



### INTEGRATION

Data is directly entered into your TMS or ERP system.





# 05 FEATURES

## VALIDATION SOFTWARE

The screenshot shows the Deep Cognition software interface. On the left, there's a sidebar with 'Invoice Details' including Total Amount (32330.0), Invoice Date (19 - October - 2020), Purchase Order Number (654321), and Key Value (USD). A blue box highlights the 'Invoice Number' (123456). The main area displays a 'Commercial Invoice' with fields for Shipper/Exporter, Consignee, Date (19-October-2020), Invoice No. (123456), Customer PO No. (PO# 654321), Currency Used (USD), Country of Origin (USA), B/L / AWB No. (2322211212), Final Destination (London, UK), Export Route / Carrier (XY Logistics), Terms of Sale (DAT), Terms of Payment (Net 30), and Terms of Freight (Collect). Below this is a table with columns: Item & Description, HS No., Unit Value, Quantity, Weight: Lbs., and Value. The table contains one row: Exhaust Repair Kit Customer Material, Country of Origin: US, PO Number: 8011, HS No. 731814, Unit Value \$500, Quantity 2, Weight 100, Value \$1000.00.

Data can be monitored and reviewed for accuracy. If there are any discrepancies in the data, it can easily be corrected by re-entering data manually or adjusting the OCR frame. Validation can be done by a team at Deep Cognition or by your team in office.

The data can be exported into your desired format. Whether it is xml, json, etc., the output can be customized to fit your ERP/TMS System

## INTEGRATION

```
{
  "version": "1.1",
  "doc_type": "shipping invoice",
  "input_filename": "2_903_1110500,501,502,503 (2).pdf",
  "encoding": "UTF-8",
  "language 639.1": "",
  "metadata": "",
  "normalized_resolution": [
    2550,
    3300
  ],
  "tables": [
    {
      "table_no": 1,
      "title": "",
      "page_no": 1,
      "rows": [
        {
          "line": " 10",
          "item": " 21 / 45985R",
          "description": " LAMP S / T LED EURO 10-30V",
          "qty": " 64.0000 pcs",
          "price_per": " 16.60",
          "net_price": " 1,062.40"
        }
      ]
    }
  ],
  "tables_info": [
    {
      "1": {
        "table_pos": [
          217.7059292793274,
          1514.8263484239578
        ],
        "height": 402.3986130952835,
        "width": 1843.0995404720306,
        "columns": [

```

## 06

## BENEFITS

## COST REDUCTION



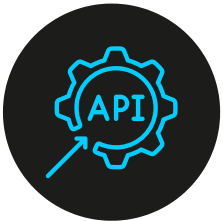
Reduce cost by up to 90% or more. Reduce the number of resources dedicated to completing data entry.

## ACCURATE



Our AI is 99.9% accurate. We use Deep Cognition's AI-powered technology to correctly identify and dictate the data entry into TMS or ERP systems.

## SEAMLESS INTEGRATION



Seamlessly integrate with multiple TMS or ERP systems. PaperEntry's output can be customized to be compatible with your current system.

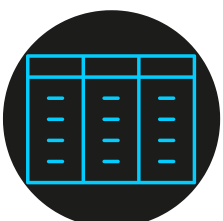
## REDUCED BACK LOG



AI doesn't take breaks or go home after an 8 hour day.

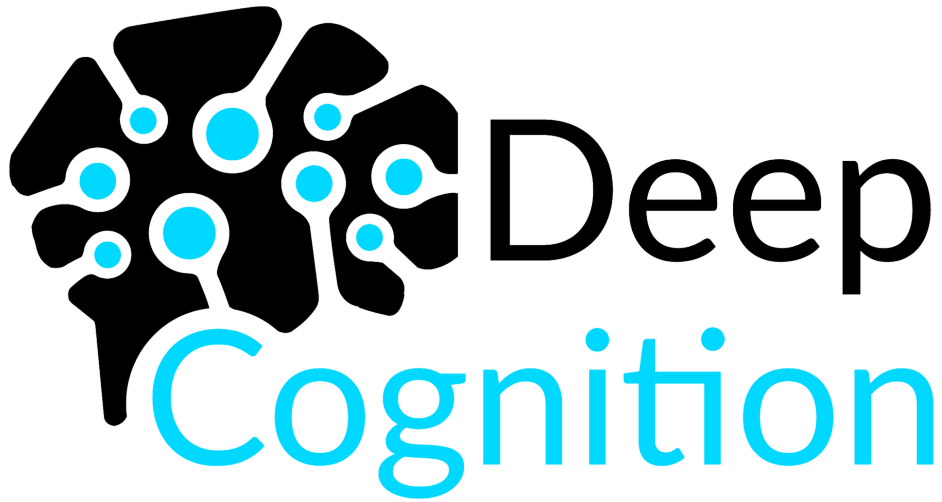
ON PREM/CLOUD  
DEVELOPMENT

PaperEntry can be deployed on the cloud or on prem.

TABLE  
EXTRACTION

Correctly identify information embedded within tables and have the data directly entered into your system.

07



Artificial Intelligence. Real Results.

TRUSTED BY:

utilize



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