AI
POWERED BUSINESS SOLUTIONS

Aress Software and Education Technologies
AI Powered Business Solutions

- Resume Recognition
- Optical Character Recognition for Receipts and Data Extraction
- Property Price Analysis
- Sales Analysis
Optical Character Recognition for Receipts and Data Extraction

With Optical Character Recognition and Text mining using Conventional Neural Network and Recurrent Neural Network
Optical Character Recognition for Receipts and Data Extraction

Select Receipts

Choose Files
No file chosen

Upload

Download Sample Receipt Click Here
Optical Character Recognition for Receipts and Data Extraction

RUN INTELLIGENT OCR

This is a list of the files you just uploaded, click on them to load/View them

- 20180112_965959.jpg
- 20180431_355671.jpg
- 20180431_76004.jpg
Optical Character Recognition for Receipts and Data Extraction

RUN INTELLIGENT OCR

Processing...

This is a list of the files you just uploaded, click on them to load/View them
- 20180311_153850.jpg
- 20180311_155907.jpg
- 20180311_160034.jpg
MIDLAND EXPRESSWAY LIMITED
Operations Centre, Express Way, Market Harborough LE16 9LA
Phone: 0330 660 0791  Web site: www.aress.co.uk
Company Reg No.: 09279277  VAT Reg No.: GB 778 8789 90

Receipt

Ref. Class:  2
Tariff:  WEDNESDAY

Amount inc. VAT: £5.80
Amount excl. VAT: £5.00

Payment Info:
Card: Debit

Amount (£): £5.00

Customer: Grant Kyte

Date: 24/01/2018
Transaction No.: 10112345678

Operator: 33550

Aress Software and Education Technologies
### Optical Character Recognition for Receipts and Data Extraction

<table>
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<th>total_charge</th>
<th>amount_include_vat</th>
<th>amount_exclude_vat</th>
<th>vat_charge</th>
<th>card_type</th>
<th>receipt_num</th>
<th>trans_num</th>
<th>transaction_status</th>
<th>bid</th>
<th>company_num</th>
<th>billing_date</th>
<th>card_num</th>
<th>exp_date</th>
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<td>5.90</td>
<td>4.92</td>
<td>0.98</td>
<td>master card</td>
<td>D1103000430btl</td>
<td>confirmed</td>
<td>03</td>
<td>2309787</td>
<td>2018-01-24</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>3.95</td>
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<td>284097774779</td>
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</tr>
</tbody>
</table>
Optical Character Recognition

- Input Dataset
- Digit Recognition
- Word Recognition
- Binary Conversion
- Neural Network
- Recognize Character
- Text Documents

Special character Recognition

Image of the documents
Sub-image of the documents

Neural Network Recognize Character Text Documents

Aress Software and Education Technologies
Pattern Recognition and Extraction

Text Documents → Text Preprocessing → Feature recognition and extraction → Classification of features → Optimization of features → Output in Key-value pairs

- NLP
- Neural Network
- Neural Network
Receipt
Veh. Class: 2 Annuilt (<1 VAT £4.33
Tariff: NEEDDY VAT £0 0031 £0.98
Annuit Inc. VAT £5.00
Payment(s): Card MASTER CARD £5.00
No XXXXXXXXXXXXXX0047
Expiry date: 10/13
Start Val. : /
Card swiped. transactuin confirmed
Your account will be debited by
this amount. Please keep this copy
Total Paid: £5.00
Great Hyrley 24/01/2018 15:01
TID/Lane: 103 Trans. No: 01.113 001334051
Operator: 3350 Receipt No: 01.103.000430b1.0

20180131_160844 - Notepad
File Edit Format View Help
#2 25L OFF LUP 015006N 0'20 00.20
2 CR033 BUTIRL 1.75 03.50
Total To Pay: 2.05
-4 ~ H -- VAJ ANALYSIS.
YAT 20% m 0.51
Zero 0.190 m 0.60
E
Net b: 0.04
~1.7: PAYMENT SUMMARY
Received a: 6.55
Card Name: Auto Dudley
CARDHOLDNER COPY
Welcome Break
M6 Motorway Jct 15/16 SIB SH0
Date 09/01/18
Time 08:01:24
Merchandising Identifier xxrfilea
Terminal ID xrrr1070
Receipt _f-> 28119
Transaction number 360000024430
Card data source CONTACTLESS
Card scheme MASUREBAD
Card number KIKIKW****04/2
Authorisation code _040350
Application ID A0000000041019
Issue number 00
Transaction Purchase
Goods and Services 0.55GBP
TOTAL 0.55GBP
Verification cardholder No1 Verified
Your account will be debited with the
above amount.
Please retain for your records
Thank you
2244 mam
$230303; 1196 _ 09/01/2018 08:02

Atul Gholap_Java Developer.txt
## Model Output

| A   | B           | C       | D       | E           | F               | G               | H               | I               | J               | K               | L               | M               | N               | O               | P               | Q               | R               | S               | T               | U               | V               | W               | X               | Y               | Z               |
|-----|-------------|---------|---------|-------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1   | date        | amount  | charge   | card_type   | receipt_num     | transaction_num | transaction_id  | company   | billing   | card_num | exp_date          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2   | 20180131   | 5.23    | 4.38    | mastercard  | 23403           |                  |                  | 103               | 23009762          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3   | 20180131   | 5.96    | 4.03    | 0.98         | mastercard 01    | 28410            | 1.11E+15         | Oct-10            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4   | 20180131   | 14.47   | 26.38   | 0.05         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5   | 20180131   | 14.47   | 16.3    | 1.17          | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 6   | 20180131   | 1.6     | 0.8     | mastercard   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7   | 20180131   | 12      | 0       | mastercard   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 8   | 20180131   | 12      | 10      | mastercard   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9   | 20180131   | 3       | 0       | mastercard   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 10  | 20180131   | 1.49    | 0       | mastercard   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11  | 20180131   | 4.4     | 3.67    | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 12  | 20180131   | 4.0     | 4.0     | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13  | 20180131   | 5.9     | 5.9     | 4.92         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 14  | 20180131   | 0.34    | 0       | mastercard   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15  | 20180131   | 2.01    | 2.01    | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 16  | 20180131   | 5.84    | 5.84    | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17  | 20180131   | 7.45    | 7.45    | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 18  | 20180131   | 6.09    | 6.09    | 5.35         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19  | 20180131   | 6.55    | 6.55    | 3.3          | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 20  | 20180131   | 6.55    | 6.55    | 3.3          | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21  | 20180131   | 6.09    | 6.09    | 5.35         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 22  | 20180131   | 5.9     | 5.9     | 4.92         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23  | 20180131   | 4.0     | 4.0     | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 24  | 20180131   | 5.84    | 5.84    | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25  | 20180131   | 7.45    | 7.45    | 1.03         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 26  | 20180131   | 6.09    | 6.09    | 5.35         | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27  | 20180131   | 6.55    | 6.55    | 3.3          | mastercard      | 30102            | 20006            | 3.7E+11          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
Thank you for viewing the presentation about AI powered optical character recognition for receipts and data extraction

We request you to kindly share the receipts which you need to get processed by sending an email to ai@aress.com and we will get back to you with our analysis within 4 working hours.