

OCR with AWS Textract

```
In [ ]: ### Author: Sandipan Dey
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In [10]: # create IAM user and setup credentials
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```
In [1]: import boto3  
  
boto3.__version__
```

```
Out[1]: '1.14.54'
```

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In [5]: client = boto3.client('textract')
```

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In [6]: imfile = 'PANCard.png'
```

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In [7]: response = client.detect_document_text(Document={'Bytes':bytearray(open(imfile, 'rb')  
        .read())}) # local or S3
```

In [8]: response

```
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    'date': 'Mon, 05 Apr 2021 19:32:16 GMT'},
    'RetryAttempts': 0}}

```

1. Process Text

```

In [65]: import collections

def process_text(response):
    # response.keys()
    print(collections.Counter([x['BlockType'] for x in response['Blocks']]))
    print()
    return {line['Text']: line['Confidence'] for line in list(filter(lambda x: x['BlockType'] == 'LINE', response['Blocks']))}

```

```
In [26]: for line, conf in process_text(response).items():  
         print(line, conf)
```

```
Counter({'WORD': 37, 'LINE': 14, 'PAGE': 1})
```

```
HRd 38.25540542602539  
INCOME TAX DEPARTMENT 85.4293441772461  
GOVT. OF INDIA 98.48295593261719  
them arrs 22.294279098510742  
Permanent Account Number Card 99.34297943115234  
AAAAA1234A 99.12091064453125  
FIRST NAME MIDDLE NAME SURNAME 99.1007308959961  
form - I Father's Name 59.35505676269531  
in Date of 74.18087768554688  
CARD HOLDER'S 98.39664459228516  
SIGNATURE 99.7313003540039  
CARD 53.18445587158203  
DD/MM/YYYY 99.61729431152344
```

```
In [27]: response = client.detect_document_text(Document={'Bytes': bytearray(open('claim_form.p  
ng', 'rb').read())}) # Local or S3
```

```
In [28]: for line, conf in process_text(response).items():  
         print(line, conf)
```

SECTION c DETAILS OF INSURED PERSON HOSPITALISED 94.98931884765625

o 29.18826675415039

Nome 67.470703125

ABC EF G H / JK 88.11036682128906

b 95.4243392944336

Gender 99.62004852294922

Male 96.02469635009766

Fernale 68.65031433105469

c 73.8302993774414

Age 80.74281311035156

Years 99.49199676513672

0 61.38531494140625

Months 99.76834869384766

d 89.79334259033203

Date of Birth 99.76154327392578

2 0 0 I I 9 0 0 91.07738494873047

e 96.53707122802734

Relationship to Primary Insured 96.78752899169922

Self 96.04901885986328

Spouse 99.64500427246094

Child 99.36599731445312

Fother 60.95183563232422

Mother 99.80220794677734

Other 99.9661636352539

(Please Specify) 88.72733306884766

f 98.08206176757812

Occupation 99.75685119628906

Service 99.35765075683594

Self-employed 97.4005126953125

Homemaker 92.1588134765625

Student 98.22361755371094

Retired 99.7415542602539

[Please Specify) 84.90791320800781

g Address 91.78204345703125

o 0 o A BC 87.43731689453125

[if different from above) 86.87847900390625

City 99.72350311279297

ABC 99.95458984375

State 98.75955963134766

AB. 89.31417083740234

C 60.367862701416016

Pincode 93.93096923828125

O 98.3187026977539

h 95.5138168334961

Telephone No 98.78448486328125

i 76.80068969726562

Mobile No 99.18496704101562

o 0 0 0 0 0 0 0 0 90.71083068847656

Email ID 98.82435607910156

ABC@gmail.com 65.4714584350586

SECTION D . DETAILS OF HOSPITALISATION 85.86302947998047

a 86.2223892211914

Name of the Hospital where admitted 94.7230453491211

x Y 2 83.99684143066406

Room Category occupied 91.91928100585938

Daycare 54.50246810913086

Single Occuponey 88.9247817993164

Twin Sharing 99.08355712890625

3 or more beds per 98.95674133300781

Hospitalisation due to 95.40435791015625

Illness 87.88875579833984

Injury 70.13959503173828

Maternity 96.34025573730469

Date of Injurg/Date of disease first detected/Date of delivery 96.49317932128906
 M 87.95091247558594
 y 87.99221801757812
 Date of odmission 96.5072250366211
 2 0 0 I I 9 0 0 € 93.30111694335938
 Time 99.89108276367188
 00 88.46131896972656
 9 98.05863189697266
 Date of discharge 98.7734603881836
 2 0 o 1 I 9 0 0 86.22086334228516
 If injury, give couse 96.2429428100586
 Self-Inflicted 56.38410568237305
 Road Traffie Accident 75.90153503417969
 Substance Abuse 99.56060791015625
 Alcohol Consumption 86.30192565917969
 If Medico legal 91.64584350585938
 Yes 98.823486328125
 No 99.63819885253906
 il 90.67516326904297
 Reported to police? 99.84693145751953
 iii 63.69020462036133
 MLC Report, 6 Police FIR attached? 96.6946792602539
 System of medicine 99.16985321044922
 SECTION E- DETAILS OF CLAIM 94.56929779052734
 Details of the treatment expenses claimed 97.4124984741211
 Pre-hospitalisation Expenses 98.36603546142578
 Rs 89.22759246826172
 Hospitalisation Expenses 88.78799438476562
 Post-hospitalisation Expenses 91.0126953125
 iv 84.17082214355469
 Health-Check up Cost 98.44877624511719
 Ambulance Charges 98.09114837646484
 vi 94.0416259765625
 Others (code) 98.5475082397461
 Total 99.38809204101562
 vii 90.78228759765625
 Pre-hospitalisation Period 92.33551788330078
 days 98.24943542480469
 vill 22.50191879272461
 Post - hospitalisation Period 96.43182373046875
 Cloim for Domiciliary Hospitolization 97.55452728271484
 (if ges, please provide details in annexure) 84.76985931396484

```
In [31]: response = client.detect_document_text(Document={'Bytes':bytearray(open('claim_form2.png', 'rb').read())}) # Local or S3
```

```
In [32]: for line, conf in process_text(response).items():  
         print(line, conf)
```

Sample 99.2040023803711
STERLING Option I* 92.85661315917969
1500 99.87867736816406
CMS-1500 Form 98.8382797241211
P.O. Box 69314 99.51289367675781
Harrisburg, PA 99.16020202636719
HEALTH INSURANCE CLAIM FORM 99.78480529785156
17106-9314 98.23118591308594
APPROVED BY NATIONAL UNIFORM CLAIM COMMITTEE 08/05 99.71517944335938
PICA 99.51951599121094
1 92.29202270507812
MEDICARE 99.66496276855469
MEDICAID 99.64067077636719
TRICARE 99.7130126953125
CHAMPVA 99.713623046875
GROUP 99.74991607666016
FECA 99.8226547241211
OTHER 99.85930633544922
INSURED'S I.D. NUMBER 98.99726867675781
(For Program in Item 1) 98.69245147705078
CHAMPUS 99.52824401855469
HEALTH PLAN 98.49276733398438
BLKLUNG 68.75041198730469
(Medicare #) 99.0288314819336
(Medicaid #) 98.23974609375
(Sponsor's SSN) 99.33599853515625
(Member ID#) 98.63519287109375
(SSN or ID) 98.56663513183594
(SSN) 99.95624542236328
(ID) 99.84123992919922
555-55-5555A 90.69723510742188
PATIENT'S NAME (Last Name, First Name, Middle Initial) 99.33985137939453
PATIENT'S BIRTH DATE 99.0514907836914
SEX 99.8617172241211
INSURED'S NAME (Last Name, First Name, Middle Initial) 99.23828125
MM 99.92182922363281
DD 99.7341537475586
Smith, Bob A. 99.63563537597656
12 85.32827758789062
18 98.33539581298828
36 99.692626953125
M 99.61351013183594
F 98.9181137084961
Same 99.6620864868164
5 99.912109375
PATIENT'S ADDRESS (No., Street) 99.75312042236328
6 99.93846130371094
PATIENT RELATIONSHIP TO INSURED 99.5580825805664
INSURED'S ADDRESS (No., Street) 99.7049331665039
123 Paradise Road 99.77042388916016
Self 99.37232971191406
Spouse 99.93319702148438
Child 99.81602478027344
Other 99.98143768310547
CITY 99.91665649414062
STATE 99.92900085449219
PATIENT STATUS 99.75460052490234
Seattle 99.79524230957031
WA 95.76644897460938
Single 99.89553833007812
Married 99.96807098388672
ZIP CODE 99.69156646728516
TELEPHONE (Include Area Code) 99.54116821289062

12345 99.90670013427734
Full-Time 99.2834243774414
Part-Time 99.26289367675781
(555) 555-1234 97.42251586914062
Employed 99.93228912353516
Student 99.91377258300781
(97.68653106689453
) 96.61254119873047
9 OTHER INSURED'S NAME (Last Name, First Name, Middle Initial) 98.99291229248047
10 90.78369903564453
IS PATIENT'S CONDITION RELATED TO: 99.34259796142578
I1 39.446048736572266
INSURED'S POLICY GROUP OR FECA NUMBER 99.80325317382812
None 99.81783294677734
a 84.94026947021484
OTHER INSURED'S POLICY OR GROUP NUMBER 99.8234634399414
EMPLOYMENT? (Current or Previous) 99.4709701538086
INSURED'S DATE OF BIRTH 99.81141662597656
YY 99.93072509765625
YES 99.94803619384766
NO 99.83475494384766
b 88.09770202636719
OTHER INSURED'S DATE OF BIRTH 99.853515625
AUTO ACCIDENT? 99.65882110595703
PLACE (State) 99.74478912353516
EMPLOYER'S NAME OR SCHOOL NAME 99.801025390625
C 62.404388427734375
OTHER ACCIDENT? 99.82905578613281
INSURANCE PLAN NAME OR PROGRAM NAME 99.80963134765625
d 86.32622528076172
RESERVED FOR LOCAL USE 99.75220489501953
IS THERE ANOTHER HEALTH BENEFIT PLAN? 99.44775390625
If yes, return to and complete item 9 a-d. 99.22281646728516
READ BACK OF FORM BEFORE COMPLETING & SIGNING THIS FORM. 99.8374252319336
13 91.05573272705078
INSURED'S OR AUTHORIZED PERSON'S SIGNATURE I authorize 97.09980010986328
PATIENT'S OR AUTHORIZED PERSON'S SIGNATURE I authorize the release of any medical or
other information necessary 99.18934631347656
payment of medical benefits to the undersigned physician or supplier for 99.93105316
16211
to 99.90132141113281
process this claim. I also request payment of government benefits either to myself o
r to the party who accepts assignment 97.83557891845703
services described below. 99.4931640625
below. 97.58470916748047
SIGNED 99.63964080810547
Signature on File 99.64851379394531
DATE 99.85914611816406
02/14/2006 99.54737091064453
DATE OF CURRENT 99.20795440673828
ILLNESS (First symptom) OR 99.58154296875
15 87.49356079101562
IF PATIENT HAS HAD SAME OR SIMILAR ILLNESS. 95.59014129638672
DATES PATIENT UNABLE TO WORK IN CURRENT OCCUPATION 99.65347290039062
INJURY (Accident) OR 98.7904281616211
GIVE FIRST DATE 99.73223114013672
PREGNANCY(LMP 82.60833740234375
FROM 99.86981201171875
TO 99.91644287109375
NAME OF REFERRING PROVIDER OR OTHER SOURCE 99.72452545166016
17a. 97.01935577392578
A55555 99.65928649902344
HOSPITALIZATION DATES RELATED TO CURRENT SERVICES 99.05071258544922
K. Brown, MD 99.71831512451172
17b. 99.559326171875
NPI 99.83223724365234

1234567890 99.73991394042969
19 87.10047912597656
OUTSIDE LAB? 99.86074829101562
\$ CHARGES 98.67833709716797
DIAGNOSIS OR NATURE OF ILLNESS OR INJURY (Relate Items 1, 2, 3 or 4 to Item 24E by Line) 98.28811645507812
MEDICAID RESUBMISSION 99.46609497070312
CODE 99.62027740478516
ORIGINAL REF. NO. 97.27397918701172
1. 99.06803894042969
250 00 93.9342041015625
3. 99.3321304321289
PRIOR AUTHORIZATION NUMBER 99.75116729736328
2. 99.24127197265625
V58 61 98.38299560546875
50D0000000 72.79759979248047
4. 97.30419158935547
DATE(S) OF SERVICE 99.60625457763672
PROCEDURES, SERVICES, OR SUPPLIES 91.64522552490234
g 86.7680892944336
From 99.97088623046875
To 99.87071990966797
PLACE OF 93.83268737792969
(Explain Unusual Circumstances) 98.87229919433594
DIAGNOSIS 99.55359649658203
DAYS 99.74346160888672
EPSDT 95.35578155517578
OR 99.9030532836914
Family 98.11644744873047
ID. 96.57817077636719
RENDERING 99.45027923583984
SERVICE 99.76351165771484
EMG 99.65016174316406
CPT/HCPCS 99.31956481933594
MODIFIER 99.23723602294922
POINTER 99.68673706054688
UNITS 99.91250610351562
Plan 98.7308349609375
QUAL. 75.26940155029297
PROVIDER ID. # 97.2741928100586
02 93.05805206298828
05 98.46060180664062
06 98.58275604248047
11 98.61080932617188
99212 99.73946380615234
1,2 91.5550537109375
55 99.57107543945312
00 94.71952056884766
3322221111 97.91637420654297
2 99.84999084472656
85610 99.66361236572266
30 00 99.20922088623047
3 99.65670013427734
85635 99.80066680908203
30 87.44119262695312
4 99.61223602294922
25 85.28305053710938
FEDERAL TAX I.D. NUMBER 99.33308410644531
SSN EIN 99.50350189208984
PATIENT'S ACCOUNT NO. 99.73149871826172
ACCEPT ASSIGNMENT? 99.17857360839844
TOTAL CHARGE 99.57653045654297
AMOUNT PAID 99.65518188476562
BALANCE DUE 99.21553802490234
For govt. claims see back) 90.57893371582031
99-1234567 99.78290557861328

12345987 99.9190673828125
 \$ 99.44137573242188
 115 98.64656066894531
 31 91.94380950927734
 SIGNATURE OF PHYSICIAN OR SUPPLIER 99.79364013671875
 SERVICE FACILITY LOCATION INFORMATION 99.81971740722656
 BILLING PROVIDER INFO & PH # 91.79489135742188
 INCLUDING DEGREES OR CREDENTIALS 99.7945785522461
 (555)555-5555 90.55096435546875
 (I certify that the statements on the reverse 98.12765502929688
 Office Name 99.95519256591797
 Provider Name 99.95557403564453
 apply to this bill and are made a part thereof.) 99.89407348632812
 123 Main St. 99.49417877197266
 P.O. Box 12345 99.57518768310547
 T. Jones 99.19181823730469
 Seattle, WA 12345-2345 99.57372283935547
 02/14/06 99.35661315917969
 a. 1123456789 98.90579986572266
 b. 92.06266784667969
 a1111222233 75.06988525390625
 NUCC Instruction Manual available at: www.nucc.org 99.55908966064453
 APPROVED OMB-0938-0999 FORM CMS-1500 (08/05) 99.3924789428711

2. Process Document

```

In [37]: def processDocument(doc):
    for page in doc.pages:
        print("PAGE\n=====")
        for line in page.lines:
            print("Line: {}--{}".format(line.text, line.confidence))
            for word in line.words:
                print("Word: {}--{}".format(word.text, word.confidence))
        for table in page.tables:
            print("TABLE\n=====")
            for r, row in enumerate(table.rows):
                for c, cell in enumerate(row.cells):
                    print("Table[{}][{}] = {}-{}".format(r, c, cell.text, cell.confid
ence))
        print("Form (key/values)\n=====")
        for field in page.form.fields:
            k = ""
            v = ""
            if(field.key):
                k = field.key.text
            if(field.value):
                v = field.value.text
            print("Field: Key: {}, Value: {}".format(k,v))

        #Get field by key
        key = "Phone Number:"
        print("\nGet field by key ({}):\n===== ".format(key))
        f = page.form.getFieldByKey(key)
        if(f):
            print("Field: Key: {}, Value: {}".format(f.key.text, f.value.text))

        #Search field by key
        key = "address"
        print("\nSearch field by key ({}):\n===== ".format(key))
        fields = page.form.searchFieldsByKey(key)
        for field in fields:
            print("Field: Key: {}, Value: {}".format(field.key, field.value))
  
```

In [39]: `import trp`

```
doc = trp.Document(response)
```

```
processDocument(doc)
```

PAGE

=====

Line: Sample--99.2040023803711
Word: Sample--99.2040023803711
Line: STERLING Option I*--92.85661315917969
Word: STERLING--99.68412780761719
Word: Option--99.95297241210938
Word: I*--78.93273162841797
Line: 1500--99.87867736816406
Word: 1500--99.87867736816406
Line: CMS-1500 Form--98.8382797241211
Word: CMS-1500--97.7783203125
Word: Form--99.89824676513672
Line: P.O. Box 69314--99.51289367675781
Word: P.O.--99.35362243652344
Word: Box--99.5589828491211
Word: 69314--99.62608337402344
Line: Harrisburg, PA--99.16020202636719
Word: Harrisburg,--98.6749496459961
Word: PA--99.64545440673828
Line: HEALTH INSURANCE CLAIM FORM--99.78480529785156
Word: HEALTH--99.91011047363281
Word: INSURANCE--99.6637954711914
Word: CLAIM--99.76610565185547
Word: FORM--99.7991943359375
Line: 17106-9314--98.23118591308594
Word: 17106-9314--98.23118591308594
Line: APPROVED BY NATIONAL UNIFORM CLAIM COMMITTEE 08/05--99.71517944335938
Word: APPROVED--99.80077362060547
Word: BY--99.9517593383789
Word: NATIONAL--99.85623168945312
Word: UNIFORM--99.66802978515625
Word: CLAIM--99.63713073730469
Word: COMMITTEE--99.4502944946289
Word: 08/05--99.64202117919922
Line: PICA--99.79169464111328
Word: PICA--99.79169464111328
Line: PICA--99.51951599121094
Word: PICA--99.51951599121094
Line: 1--87.9472885131836
Word: 1--87.9472885131836
Line: MEDICARE--99.66496276855469
Word: MEDICARE--99.66496276855469
Line: MEDICAID--99.64067077636719
Word: MEDICAID--99.64067077636719
Line: TRICARE--99.7130126953125
Word: TRICARE--99.7130126953125
Line: CHAMPVA--99.713623046875
Word: CHAMPVA--99.713623046875
Line: GROUP--99.74991607666016
Word: GROUP--99.74991607666016
Line: FECA--99.8226547241211
Word: FECA--99.8226547241211
Line: OTHER--99.85930633544922
Word: OTHER--99.85930633544922
Line: INSURED'S I.D. NUMBER--98.99726867675781
Word: INSURED'S--99.54780578613281
Word: I.D.--97.57013702392578
Word: NUMBER--99.87386322021484
Line: (For Program in Item 1)--98.69245147705078
Word: (For--99.7908706665039
Word: Program--99.8822250366211
Word: in--99.910888671875
Word: Item--96.62126922607422
Word: 1)--97.25700378417969

Line: CHAMPUS--99.52824401855469
Word: CHAMPUS--99.52824401855469
Line: HEALTH PLAN--98.49276733398438
Word: HEALTH--97.88507080078125
Word: PLAN--99.10045623779297
Line: BLKLUNG--68.75041198730469
Word: BLKLUNG--68.75041198730469
Line: (Medicare #)--99.0288314819336
Word: (Medicare--99.68598937988281
Word: #)--98.3716812133789
Line: (Medicaid #)--98.23974609375
Word: (Medicaid--99.09256744384766
Word: #)--97.38692474365234
Line: (Sponsor's SSN)--99.33599853515625
Word: (Sponsor's--99.83707427978516
Word: SSN)--98.83492279052734
Line: (Member ID#)--98.63519287109375
Word: (Member--99.550537109375
Word: ID#)--97.71986389160156
Line: (SSN or ID)--98.56663513183594
Word: (SSN--98.25462341308594
Word: or--98.72309112548828
Word: ID)--98.72219848632812
Line: (SSN)--99.95624542236328
Word: (SSN)--99.95624542236328
Line: (ID)--99.84123992919922
Word: (ID)--99.84123992919922
Line: 555-55-5555A--90.69723510742188
Word: 555-55-5555A--90.69723510742188
Line: PATIENT'S NAME (Last Name, First Name, Middle Initial)--99.33985137939453
Word: PATIENT'S--99.66992950439453
Word: NAME--99.92595672607422
Word: (Last--99.71040344238281
Word: Name,--98.94196319580078
Word: First--99.93045806884766
Word: Name,--97.2604751586914
Word: Middle--99.67681884765625
Word: Initial)--99.602783203125
Line: PATIENT'S BIRTH DATE--99.0514907836914
Word: PATIENT'S--99.33016204833984
Word: BIRTH--98.66001892089844
Word: DATE--99.16429901123047
Line: SEX--99.84615325927734
Word: SEX--99.84615325927734
Line: INSURED'S NAME (Last Name, First Name, Middle Initial)--99.23828125
Word: INSURED'S--99.70498657226562
Word: NAME--99.86225128173828
Word: (Last--99.727294921875
Word: Name,--98.28726959228516
Word: First--99.94358825683594
Word: Name,--97.04497528076172
Word: Middle--99.69661712646484
Word: Initial)--99.6392822265625
Line: MM--99.81533813476562
Word: MM--99.81533813476562
Line: DD--97.6011962890625
Word: DD--97.6011962890625
Line: Smith, Bob A.--99.63563537597656
Word: Smith,--99.83699035644531
Word: Bob--99.64998626708984
Word: A.--99.41992950439453
Line: 12--99.50719451904297
Word: 12--99.50719451904297
Line: 18--98.33539581298828
Word: 18--98.33539581298828
Line: 36--99.692626953125

Word: 36--99.692626953125
Line: M--99.2984619140625
Word: M--99.2984619140625
Line: F--98.21135711669922
Word: F--98.21135711669922
Line: Same--99.47893524169922
Word: Same--99.47893524169922
Line: 5--85.00593566894531
Word: 5--85.00593566894531
Line: PATIENT'S ADDRESS (No., Street)--99.75312042236328
Word: PATIENT'S--99.65300750732422
Word: ADDRESS--99.79419708251953
Word: (No.,--99.7249755859375
Word: Street)--99.84033203125
Line: 6--86.65088653564453
Word: 6--86.65088653564453
Line: PATIENT RELATIONSHIP TO INSURED--99.5580825805664
Word: PATIENT--99.80123901367188
Word: RELATIONSHIP--99.56298065185547
Word: TO--99.0819320678711
Word: INSURED--99.78618621826172
Line: INSURED'S ADDRESS (No., Street)--99.7049331665039
Word: INSURED'S--99.68486785888672
Word: ADDRESS--99.64295959472656
Word: (No.,--99.73336791992188
Word: Street)--99.75853729248047
Line: 123 Paradise Road--99.77042388916016
Word: 123--99.88470458984375
Word: Paradise--99.4873046875
Word: Road--99.93927764892578
Line: Self--99.37232971191406
Word: Self--99.37232971191406
Line: Spouse--99.93319702148438
Word: Spouse--99.93319702148438
Line: Child--99.81602478027344
Word: Child--99.81602478027344
Line: Other--99.98155975341797
Word: Other--99.98155975341797
Line: Same--99.6620864868164
Word: Same--99.6620864868164
Line: CITY--99.90422058105469
Word: CITY--99.90422058105469
Line: STATE--99.9095230102539
Word: STATE--99.9095230102539
Line: PATIENT STATUS--99.75460052490234
Word: PATIENT--99.8000717163086
Word: STATUS--99.70913696289062
Line: CITY--99.91665649414062
Word: CITY--99.91665649414062
Line: STATE--99.92900085449219
Word: STATE--99.92900085449219
Line: Seattle--99.79524230957031
Word: Seattle--99.79524230957031
Line: WA--95.76644897460938
Word: WA--95.76644897460938
Line: Single--99.89553833007812
Word: Single--99.89553833007812
Line: Married--99.96807098388672
Word: Married--99.96807098388672
Line: Other--99.98143768310547
Word: Other--99.98143768310547
Line: ZIP CODE--99.74276733398438
Word: ZIP--99.67102813720703
Word: CODE--99.81449127197266
Line: TELEPHONE (Include Area Code)--99.50366973876953
Word: TELEPHONE--99.60672760009766

Word: (Include--99.14545440673828
Word: Area--99.56370544433594
Word: Code)--99.69879150390625
Line: ZIP CODE--99.69156646728516
Word: ZIP--99.58057403564453
Word: CODE--99.80255126953125
Line: TELEPHONE (Include Area Code)--99.54116821289062
Word: TELEPHONE--99.61117553710938
Word: (Include--99.46762084960938
Word: Area--99.58163452148438
Word: Code)--99.5042495727539
Line: 12345--99.90670013427734
Word: 12345--99.90670013427734
Line: Full-Time--99.2834243774414
Word: Full-Time--99.2834243774414
Line: Part-Time--99.26289367675781
Word: Part-Time--99.26289367675781
Line: (555) 555-1234--97.42251586914062
Word: (555)--96.48381042480469
Word: 555-1234--98.36122131347656
Line: Employed--99.93228912353516
Word: Employed--99.93228912353516
Line: Student--99.86610412597656
Word: Student--99.86610412597656
Line: Student--99.91377258300781
Word: Student--99.91377258300781
Line: (--97.68653106689453
Word: (--97.68653106689453
Line:)--96.61254119873047
Word:)--96.61254119873047
Line: 9 OTHER INSURED'S NAME (Last Name, First Name, Middle Initial)--98.99291229248
047
Word: 9--95.20578002929688
Word: OTHER--99.93704986572266
Word: INSURED'S--99.71772003173828
Word: NAME--99.92462921142578
Word: (Last--99.66876983642578
Word: Name,--97.48075866699219
Word: First--99.8636474609375
Word: Name,--98.96058654785156
Word: Middle--99.59048461914062
Word: Initial)--99.57970428466797
Line: 10--90.78369903564453
Word: 10--90.78369903564453
Line: IS PATIENT'S CONDITION RELATED TO:--99.34259796142578
Word: IS--98.50377655029297
Word: PATIENT'S--99.66375732421875
Word: CONDITION--99.74193572998047
Word: RELATED--99.59110260009766
Word: TO:--99.21241760253906
Line: I1--39.446048736572266
Word: I1--39.446048736572266
Line: INSURED'S POLICY GROUP OR FECA NUMBER--99.80325317382812
Word: INSURED'S--99.70228576660156
Word: POLICY--99.7876968383789
Word: GROUP--99.86810302734375
Word: OR--99.88361358642578
Word: FECA--99.75503540039062
Word: NUMBER--99.82274627685547
Line: None--99.81783294677734
Word: None--99.81783294677734
Line: a--84.94026947021484
Word: a--84.94026947021484
Line: OTHER INSURED'S POLICY OR GROUP NUMBER--99.8234634399414
Word: OTHER--99.9415512084961
Word: INSURED'S--99.67573547363281

Word: POLICY--99.69019317626953
Word: OR--99.92755126953125
Word: GROUP--99.87872314453125
Word: NUMBER--99.82701110839844
Line: EMPLOYMENT? (Current or Previous)--99.4709701538086
Word: EMPLOYMENT?--99.65264129638672
Word: (Current--99.53193664550781
Word: or--99.9043197631836
Word: Previous)--98.79496002197266
Line: INSURED'S DATE OF BIRTH--99.81141662597656
Word: INSURED'S--99.55885314941406
Word: DATE--99.83950805664062
Word: OF--99.92955017089844
Word: BIRTH--99.91776275634766
Line: SEX--99.89513397216797
Word: SEX--99.89513397216797
Line: MM--99.87846374511719
Word: MM--99.87846374511719
Line: DD--99.82991790771484
Word: DD--99.82991790771484
Line: YY--99.92698669433594
Word: YY--99.92698669433594
Line: YES--99.9248046875
Word: YES--99.9248046875
Line: NO--99.7656021118164
Word: NO--99.7656021118164
Line: M--98.60612487792969
Word: M--98.60612487792969
Line: F--99.04203796386719
Word: F--99.04203796386719
Line: b--89.91239929199219
Word: b--89.91239929199219
Line: OTHER INSURED'S DATE OF BIRTH--99.853515625
Word: OTHER--99.95021057128906
Word: INSURED'S--99.63300323486328
Word: DATE--99.84410095214844
Word: OF--99.9283676147461
Word: BIRTH--99.91189575195312
Line: b--85.57343292236328
Word: b--85.57343292236328
Line: MM--99.949462890625
Word: MM--99.949462890625
Line: SEX--99.8617172241211
Word: SEX--99.8617172241211
Line: AUTO ACCIDENT?--99.65882110595703
Word: AUTO--99.53693389892578
Word: ACCIDENT?--99.78070831298828
Line: DD--99.74761962890625
Word: DD--99.74761962890625
Line: PLACE (State)--99.74478912353516
Word: PLACE--99.7485122680664
Word: (State)--99.74107360839844
Line: EMPLOYER'S NAME OR SCHOOL NAME--99.82115173339844
Word: EMPLOYER'S--99.57549285888672
Word: NAME--99.92430114746094
Word: OR--99.93936157226562
Word: SCHOOL--99.80465698242188
Word: NAME--99.86193084716797
Line: YY--99.70824432373047
Word: YY--99.70824432373047
Line: M--99.61351013183594
Word: M--99.61351013183594
Line: F--98.9181137084961
Word: F--98.9181137084961
Line: YES--99.91970825195312
Word: YES--99.91970825195312

Line: NO--99.8421859741211
Word: NO--99.8421859741211
Line: C--62.404388427734375
Word: C--62.404388427734375
Line: EMPLOYER'S NAME OR SCHOOL NAME--99.801025390625
Word: EMPLOYER'S--99.56385803222656
Word: NAME--99.87699890136719
Word: OR--99.8951644897461
Word: SCHOOL--99.783203125
Word: NAME--99.8858871459961
Line: OTHER ACCIDENT?--99.82905578613281
Word: OTHER--99.89424133300781
Word: ACCIDENT?--99.76386260986328
Line: INSURANCE PLAN NAME OR PROGRAM NAME--99.81877899169922
Word: INSURANCE--99.8587875366211
Word: PLAN--99.72696685791016
Word: NAME--99.90093994140625
Word: OR--99.94023895263672
Word: PROGRAM--99.60027313232422
Word: NAME--99.88546752929688
Line: YES--99.9139404296875
Word: YES--99.9139404296875
Line: NO--99.8388671875
Word: NO--99.8388671875
Line: d--86.14797973632812
Word: d--86.14797973632812
Line: INSURANCE PLAN NAME OR PROGRAM NAME--99.80963134765625
Word: INSURANCE--99.78862762451172
Word: PLAN--99.8108901977539
Word: NAME--99.89347839355469
Word: OR--99.94648742675781
Word: PROGRAM--99.59185791015625
Word: NAME--99.82644653320312
Line: RESERVED FOR LOCAL USE--99.54727172851562
Word: RESERVED--99.7923812866211
Word: FOR--99.47953033447266
Word: LOCAL--99.26224517822266
Word: USE--99.6549301147461
Line: d--83.78839874267578
Word: d--83.78839874267578
Line: IS THERE ANOTHER HEALTH BENEFIT PLAN?--99.44775390625
Word: IS--97.62500762939453
Word: THERE--99.85328674316406
Word: ANOTHER--99.84241485595703
Word: HEALTH--99.81685638427734
Word: BENEFIT--99.69529724121094
Word: PLAN?--99.85369110107422
Line: YES--99.92123413085938
Word: YES--99.92123413085938
Line: NO--99.85967254638672
Word: NO--99.85967254638672
Line: If yes, return to and complete item 9 a-d.--99.22281646728516
Word: If--98.47042083740234
Word: yes,--99.78974151611328
Word: return--99.88082885742188
Word: to--99.95854949951172
Word: and--99.96147155761719
Word: complete--99.80944061279297
Word: item--99.64764404296875
Word: 9--99.19776153564453
Word: a-d.--96.28945922851562
Line: READ BACK OF FORM BEFORE COMPLETING & SIGNING THIS FORM.--99.8374252319336
Word: READ--99.9579849243164
Word: BACK--99.91194915771484
Word: OF--99.96818542480469
Word: FORM--99.87385559082031

Word: BEFORE--99.81439971923828
Word: COMPLETING--99.31354522705078
Word: &--99.90744018554688
Word: SIGNING--99.9434814453125
Word: THIS--99.953857421875
Word: FORM.--99.72959899902344
Line: 13--91.05573272705078
Word: 13--91.05573272705078
Line: INSURED'S OR AUTHORIZED PERSON'S SIGNATURE I authorize--97.09980010986328
Word: INSURED'S--99.6902084350586
Word: OR--99.94612121582031
Word: AUTHORIZED--99.81646728515625
Word: PERSON'S--99.7349853515625
Word: SIGNATURE--99.38298797607422
Word: I--81.31034088134766
Word: authorize--99.8174819946289
Line: 12--85.32827758789062
Word: 12--85.32827758789062
Line: PATIENT'S OR AUTHORIZED PERSON'S SIGNATURE I authorize the release of any medical or other information necessary--99.18934631347656
Word: PATIENT'S--99.67105865478516
Word: OR--99.92597961425781
Word: AUTHORIZED--99.79048156738281
Word: PERSON'S--99.74854278564453
Word: SIGNATURE--99.84579467773438
Word: I--88.62962341308594
Word: authorize--99.9491958618164
Word: the--99.9918441772461
Word: release--99.93220520019531
Word: of--99.94766235351562
Word: any--99.98163604736328
Word: medical--99.90393829345703
Word: or--99.93932342529297
Word: other--99.91682434082031
Word: information--99.93043518066406
Word: necessary--99.9250259399414
Line: payment of medical benefits to the undersigned physician or supplier for--99.9310531616211
Word: payment--99.93599700927734
Word: of--99.95039367675781
Word: medical--99.89291381835938
Word: benefits--99.95254516601562
Word: to--99.98299407958984
Word: the--99.98900604248047
Word: undersigned--99.9060287475586
Word: physician--99.86031341552734
Word: or--99.9336166381836
Word: supplier--99.9215316772461
Word: for--99.916259765625
Line: to--99.90132141113281
Word: to--99.90132141113281
Line: process this claim. I also request payment of government benefits either to myself or to the party who accepts assignment--97.83557891845703
Word: process--99.93407440185547
Word: this--99.96669006347656
Word: claim.--85.86356353759766
Word: I--71.8301010131836
Word: also--99.9166488647461
Word: request--99.89667510986328
Word: payment--99.95176696777344
Word: of--99.95886993408203
Word: government--99.948974609375
Word: benefits--99.92794799804688
Word: either--99.95037841796875
Word: to--99.97244262695312
Word: myself--99.92741394042969

Word: or--99.9632568359375
Word: to--99.9749755859375
Word: the--99.9891128540039
Word: party--99.97454071044922
Word: who--99.95585632324219
Word: accepts--99.90626525878906
Word: assignment--99.90203857421875
Line: services described below.--99.4931640625
Word: services--99.88076782226562
Word: described--99.93084716796875
Word: below.--98.66787719726562
Line: below.--97.58470916748047
Word: below.--97.58470916748047
Line: SIGNED--99.9146499633789
Word: SIGNED--99.9146499633789
Line: Signature on File--99.64851379394531
Word: Signature--99.37583923339844
Word: on--99.8568344116211
Word: File--99.71287536621094
Line: DATE--99.89221954345703
Word: DATE--99.89221954345703
Line: 02/14/2006--99.54737091064453
Word: 02/14/2006--99.54737091064453
Line: SIGNED--99.95467376708984
Word: SIGNED--99.95467376708984
Line: DATE OF CURRENT--99.20795440673828
Word: DATE--99.8160629272461
Word: OF--99.87252044677734
Word: CURRENT--97.93526458740234
Line: ILLNESS (First symptom) OR--99.58154296875
Word: ILLNESS--99.42218780517578
Word: (First--99.65937042236328
Word: symptom)--99.33523559570312
Word: OR--99.90937805175781
Line: 15--87.49356079101562
Word: 15--87.49356079101562
Line: IF PATIENT HAS HAD SAME OR SIMILAR ILLNESS.--95.59014129638672
Word: IF--98.843017578125
Word: PATIENT--99.76097869873047
Word: HAS--99.7967529296875
Word: HAD--99.75950622558594
Word: SAME--99.7695541381836
Word: OR--99.69120788574219
Word: SIMILAR--77.20377349853516
Word: ILLNESS.--89.89630126953125
Line: DATES PATIENT UNABLE TO WORK IN CURRENT OCCUPATION--99.65347290039062
Word: DATES--99.71753692626953
Word: PATIENT--99.55186462402344
Word: UNABLE--99.6695785522461
Word: TO--99.21234893798828
Word: WORK--99.93997955322266
Word: IN--99.87018585205078
Word: CURRENT--99.56968688964844
Word: OCCUPATION--99.69657897949219
Line: MM--99.89356994628906
Word: MM--99.89356994628906
Line: DD--99.60262298583984
Word: DD--99.60262298583984
Line: YY--97.69144439697266
Word: YY--97.69144439697266
Line: INJURY (Accident) OR--98.7904281616211
Word: INJURY--99.8696060180664
Word: (Accident)--96.8334732055664
Word: OR--99.668212890625
Line: GIVE FIRST DATE--99.73223114013672
Word: GIVE--99.61862182617188

Word: FIRST--99.73576354980469
Word: DATE--99.84231567382812
Line: MM--99.8456802368164
Word: MM--99.8456802368164
Line: DD--97.3995361328125
Word: DD--97.3995361328125
Line: YY--99.67906951904297
Word: YY--99.67906951904297
Line: MM--99.85708618164062
Word: MM--99.85708618164062
Line: DD--99.63969421386719
Word: DD--99.63969421386719
Line: YY--98.82891845703125
Word: YY--98.82891845703125
Line: MM--99.88107299804688
Word: MM--99.88107299804688
Line: DD--98.97744750976562
Word: DD--98.97744750976562
Line: YY--99.10693359375
Word: YY--99.10693359375
Line: PREGNANCY(LMP--82.60833740234375
Word: PREGNANCY(LMP--82.60833740234375
Line: FROM--99.84603118896484
Word: FROM--99.84603118896484
Line: TO--99.83270263671875
Word: TO--99.83270263671875
Line: NAME OF REFERRING PROVIDER OR OTHER SOURCE--99.72452545166016
Word: NAME--99.94007110595703
Word: OF--99.9679946899414
Word: REFERRING--99.85542297363281
Word: PROVIDER--99.49785614013672
Word: OR--99.64250946044922
Word: OTHER--99.59761047363281
Word: SOURCE--99.57022857666016
Line: 17a.--97.01935577392578
Word: 17a.--97.01935577392578
Line: A55555--99.65928649902344
Word: A55555--99.65928649902344
Line: HOSPITALIZATION DATES RELATED TO CURRENT SERVICES--99.05071258544922
Word: HOSPITALIZATION--95.75049591064453
Word: DATES--99.66063690185547
Word: RELATED--99.45543670654297
Word: TO--99.89102172851562
Word: CURRENT--99.78936004638672
Word: SERVICES--99.75732421875
Line: MM--99.85453796386719
Word: MM--99.85453796386719
Line: DD--99.51844787597656
Word: DD--99.51844787597656
Line: YY--97.33964538574219
Word: YY--97.33964538574219
Line: MM--99.93930053710938
Word: MM--99.93930053710938
Line: DD--99.60185241699219
Word: DD--99.60185241699219
Line: YY--99.8385238647461
Word: YY--99.8385238647461
Line: K. Brown, MD--99.71831512451172
Word: K.--99.61564636230469
Word: Brown,--99.90596771240234
Word: MD--99.6333236694336
Line: 17b.--99.559326171875
Word: 17b.--99.559326171875
Line: NPI--99.84420776367188
Word: NPI--99.84420776367188
Line: 1234567890--99.73991394042969

Word: 1234567890--99.73991394042969
Line: FROM--99.86981201171875
Word: FROM--99.86981201171875
Line: TO--99.91644287109375
Word: TO--99.91644287109375
Line: 19--87.10047912597656
Word: 19--87.10047912597656
Line: RESERVED FOR LOCAL USE--99.75220489501953
Word: RESERVED--99.85289764404297
Word: FOR--99.88005065917969
Word: LOCAL--99.62506103515625
Word: USE--99.65080261230469
Line: OUTSIDE LAB?--99.86074829101562
Word: OUTSIDE--99.84597778320312
Word: LAB?--99.87552642822266
Line: \$ CHARGES--98.65975952148438
Word: \$--97.71819305419922
Word: CHARGES--99.60132598876953
Line: YES--99.94286346435547
Word: YES--99.94286346435547
Line: NO--99.87669372558594
Word: NO--99.87669372558594
Line: DIAGNOSIS OR NATURE OF ILLNESS OR INJURY (Relate Items 1, 2, 3 or 4 to Item 24
E by Line)--98.28811645507812
Word: DIAGNOSIS--99.4759292602539
Word: OR--99.96376037597656
Word: NATURE--99.8536376953125
Word: OF--99.96841430664062
Word: ILLNESS--98.87225341796875
Word: OR--99.9716796875
Word: INJURY--99.8764877319336
Word: (Relate--99.79353332519531
Word: Items--97.61321258544922
Word: 1,--94.06611633300781
Word: 2,--82.80815124511719
Word: 3--99.00306701660156
Word: or--99.74378204345703
Word: 4--99.06958770751953
Word: to--99.90331268310547
Word: Item--97.99165344238281
Word: 24E--99.88858032226562
Word: by--99.88053894042969
Word: Line)--99.73055267333984
Line: MEDICAID RESUBMISSION--99.46609497070312
Word: MEDICAID--99.34160614013672
Word: RESUBMISSION--99.59056854248047
Line: CODE--99.62027740478516
Word: CODE--99.62027740478516
Line: ORIGINAL REF. NO.--97.27397918701172
Word: ORIGINAL--99.76110076904297
Word: REF.--93.11302947998047
Word: NO.--98.94779968261719
Line: 1.--99.06803894042969
Word: 1.--99.06803894042969
Line: 250 00--93.9342041015625
Word: 250--99.65739440917969
Word: 00--88.21102142333984
Line: 3.--99.3321304321289
Word: 3.--99.3321304321289
Line: PRIOR AUTHORIZATION NUMBER--99.75116729736328
Word: PRIOR--99.66617584228516
Word: AUTHORIZATION--99.67144775390625
Word: NUMBER--99.91587829589844
Line: 2.--99.24127197265625
Word: 2.--99.24127197265625
Line: V58 61--98.38299560546875

Word: V58--98.8592529296875
Word: 61--97.90675354003906
Line: 50D0000000--72.79759979248047
Word: 50D0000000--72.79759979248047
Line: 4.--97.30419158935547
Word: 4.--97.30419158935547
Line: DATE(S) OF SERVICE--99.60625457763672
Word: DATE(S)--99.0425796508789
Word: OF--99.94864654541016
Word: SERVICE--99.82752227783203
Line: b--88.09770202636719
Word: b--88.09770202636719
Line: d--86.32622528076172
Word: d--86.32622528076172
Line: PROCEDURES, SERVICES, OR SUPPLIES--91.64522552490234
Word: PROCEDURES,--81.99739074707031
Word: SERVICES,--84.96745300292969
Word: OR--99.89506530761719
Word: SUPPLIES--99.72099304199219
Line: g--86.7680892944336
Word: g--86.7680892944336
Line: From--99.97088623046875
Word: From--99.97088623046875
Line: To--99.87071990966797
Word: To--99.87071990966797
Line: PLACE OF--93.83268737792969
Word: PLACE OF--93.83268737792969
Line: (Explain Unusual Circumstances)--98.87229919433594
Word: (Explain--99.86328125
Word: Unusual--99.89251708984375
Word: Circumstances)--96.86109161376953
Line: DIAGNOSIS--99.55359649658203
Word: DIAGNOSIS--99.55359649658203
Line: DAYS--99.74346160888672
Word: DAYS--99.74346160888672
Line: EPSDT--95.35578155517578
Word: EPSDT--95.35578155517578
Line: OR--99.9030532836914
Word: OR--99.9030532836914
Line: Family--98.11644744873047
Word: Family--98.11644744873047
Line: ID.--96.57817077636719
Word: ID.--96.57817077636719
Line: RENDERING--99.45027923583984
Word: RENDERING--99.45027923583984
Line: MM--99.9145736694336
Word: MM--99.9145736694336
Line: DD--99.66445922851562
Word: DD--99.66445922851562
Line: YY--99.92998504638672
Word: YY--99.92998504638672
Line: MM--99.92182922363281
Word: MM--99.92182922363281
Line: DD--99.7341537475586
Word: DD--99.7341537475586
Line: YY--99.93072509765625
Word: YY--99.93072509765625
Line: SERVICE--99.76351165771484
Word: SERVICE--99.76351165771484
Line: EMG--99.65016174316406
Word: EMG--99.65016174316406
Line: CPT/HCPSCS--99.31956481933594
Word: CPT/HCPSCS--99.31956481933594
Line: MODIFIER--99.23723602294922
Word: MODIFIER--99.23723602294922
Line: POINTER--99.68673706054688

Word: POINTER--99.68673706054688
Line: \$ CHARGES--98.67833709716797
Word: \$--97.68537139892578
Word: CHARGES--99.67129516601562
Line: UNITS--99.91250610351562
Word: UNITS--99.91250610351562
Line: Plan--98.7308349609375
Word: Plan--98.7308349609375
Line: QUAL.--75.26940155029297
Word: QUAL.--75.26940155029297
Line: PROVIDER ID. #--97.2741928100586
Word: PROVIDER--99.50798034667969
Word: ID.--98.24615478515625
Word: #--94.06845092773438
Line: 1--99.64451599121094
Word: 1--99.64451599121094
Line: 02--95.85417938232422
Word: 02--95.85417938232422
Line: 05--98.8998031616211
Word: 05--98.8998031616211
Line: 06--99.27751922607422
Word: 06--99.27751922607422
Line: 02--93.94297790527344
Word: 02--93.94297790527344
Line: 05--98.46503448486328
Word: 05--98.46503448486328
Line: 06--98.9970932006836
Word: 06--98.9970932006836
Line: 11--98.2879409790039
Word: 11--98.2879409790039
Line: 99212--99.73946380615234
Word: 99212--99.73946380615234
Line: 1,2--95.15483093261719
Word: 1,2--95.15483093261719
Line: 55--99.57107543945312
Word: 55--99.57107543945312
Line: 00--98.5485610961914
Word: 00--98.5485610961914
Line: 1--88.81729125976562
Word: 1--88.81729125976562
Line: NPI--99.70878601074219
Word: NPI--99.70878601074219
Line: 3322221111--99.35639953613281
Word: 3322221111--99.35639953613281
Line: 2--99.84999084472656
Word: 2--99.84999084472656
Line: 02--95.75631713867188
Word: 02--95.75631713867188
Line: 05--99.25569152832031
Word: 05--99.25569152832031
Line: 06--99.3936767578125
Word: 06--99.3936767578125
Line: 02--96.66571044921875
Word: 02--96.66571044921875
Line: 05--98.87523651123047
Word: 05--98.87523651123047
Line: 06--99.35053253173828
Word: 06--99.35053253173828
Line: 11--96.2568588256836
Word: 11--96.2568588256836
Line: 85610--99.66361236572266
Word: 85610--99.66361236572266
Line: 1,2--88.57392120361328
Word: 1,2--88.57392120361328
Line: 30 00--99.20922088623047
Word: 30--99.75457763671875

Word: 00--98.66386413574219
Line: 1--90.83528900146484
Word: 1--90.83528900146484
Line: NPI--99.86222076416016
Word: NPI--99.86222076416016
Line: 3322221111--98.56804656982422
Word: 3322221111--98.56804656982422
Line: 3--99.65670013427734
Word: 3--99.65670013427734
Line: 02--95.36204528808594
Word: 02--95.36204528808594
Line: 05--98.85643005371094
Word: 05--98.85643005371094
Line: 06--99.23110961914062
Word: 06--99.23110961914062
Line: 02--93.05805206298828
Word: 02--93.05805206298828
Line: 05--98.46060180664062
Word: 05--98.46060180664062
Line: 06--98.58275604248047
Word: 06--98.58275604248047
Line: 11--98.61080932617188
Word: 11--98.61080932617188
Line: 85635--99.80066680908203
Word: 85635--99.80066680908203
Line: 1,2--91.5550537109375
Word: 1,2--91.5550537109375
Line: 30--99.5100326538086
Word: 30--99.5100326538086
Line: 00--98.65901947021484
Word: 00--98.65901947021484
Line: 1--92.29202270507812
Word: 1--92.29202270507812
Line: NPI--99.84867858886719
Word: NPI--99.84867858886719
Line: 3322221111--97.91637420654297
Word: 3322221111--97.91637420654297
Line: 4--99.61223602294922
Word: 4--99.61223602294922
Line: NPI--99.81543731689453
Word: NPI--99.81543731689453
Line: 5--99.912109375
Word: 5--99.912109375
Line: NPI--99.79131317138672
Word: NPI--99.79131317138672
Line: 6--99.93846130371094
Word: 6--99.93846130371094
Line: NPI--99.83223724365234
Word: NPI--99.83223724365234
Line: 25--85.28305053710938
Word: 25--85.28305053710938
Line: FEDERAL TAX I.D. NUMBER--99.33308410644531
Word: FEDERAL--99.80148315429688
Word: TAX--99.64459228515625
Word: I.D.--97.99991607666016
Word: NUMBER--99.88633728027344
Line: SSN EIN--99.50350189208984
Word: SSN--99.66091918945312
Word: EIN--99.34608459472656
Line: PATIENT'S ACCOUNT NO.--99.73149871826172
Word: PATIENT'S--99.65876007080078
Word: ACCOUNT--99.80188751220703
Word: NO.--99.73384094238281
Line: ACCEPT ASSIGNMENT?--99.17857360839844
Word: ACCEPT--99.29307556152344
Word: ASSIGNMENT?--99.0640640258789

Line: TOTAL CHARGE--99.57653045654297
Word: TOTAL--99.54415130615234
Word: CHARGE--99.6089096069336
Line: AMOUNT PAID--99.65518188476562
Word: AMOUNT--99.85173034667969
Word: PAID--99.45863342285156
Line: 30--87.44119262695312
Word: 30--87.44119262695312
Line: BALANCE DUE--99.21553802490234
Word: BALANCE--99.77540588378906
Word: DUE--98.65567016601562
Line: For govt. claims see back)--90.57893371582031
Word: For--92.01274108886719
Word: govt.--87.49034118652344
Word: claims--99.23516845703125
Word: see--99.47100067138672
Word: back)--74.68541717529297
Line: 99-1234567--99.78290557861328
Word: 99-1234567--99.78290557861328
Line: 12345987--99.9190673828125
Word: 12345987--99.9190673828125
Line: YES--99.94803619384766
Word: YES--99.94803619384766
Line: NO--99.83475494384766
Word: NO--99.83475494384766
Line: \$--99.10552215576172
Word: \$--99.10552215576172
Line: 115--98.1182861328125
Word: 115--98.1182861328125
Line: 00--88.92277526855469
Word: 00--88.92277526855469
Line: \$--99.59668731689453
Word: \$--99.59668731689453
Line: \$--99.44137573242188
Word: \$--99.44137573242188
Line: 115--98.64656066894531
Word: 115--98.64656066894531
Line: 00--94.71952056884766
Word: 00--94.71952056884766
Line: 31--91.94380950927734
Word: 31--91.94380950927734
Line: SIGNATURE OF PHYSICIAN OR SUPPLIER--99.79364013671875
Word: SIGNATURE--99.80622100830078
Word: OF--99.94170379638672
Word: PHYSICIAN--99.596435546875
Word: OR--99.90088653564453
Word: SUPPLIER--99.72293090820312
Line: SERVICE FACILITY LOCATION INFORMATION--99.81971740722656
Word: SERVICE--99.86376953125
Word: FACILITY--99.8126449584961
Word: LOCATION--99.81935119628906
Word: INFORMATION--99.78311920166016
Line: BILLING PROVIDER INFO & PH #--91.79489135742188
Word: BILLING--99.58114624023438
Word: PROVIDER--99.53113555908203
Word: INFO--99.83784484863281
Word: &--99.47576141357422
Word: PH #--60.54855728149414
Line: INCLUDING DEGREES OR CREDENTIALS--99.7945785522461
Word: INCLUDING--99.83535766601562
Word: DEGREES--99.71648406982422
Word: OR--99.96656036376953
Word: CREDENTIALS--99.659912109375
Line: (555)555-5555--90.55096435546875
Word: (555)555-5555--90.55096435546875
Line: (I certify that the statements on the reverse--98.12765502929688

Word: (I--85.25688934326172
Word: certify--99.93082427978516
Word: that--99.98649597167969
Word: the--99.9905014038086
Word: statements--99.9737548828125
Word: on--99.96234893798828
Word: the--99.97821807861328
Word: reverse--99.94218444824219
Line: Office Name--99.95519256591797
Word: Office--99.9498519897461
Word: Name--99.96052551269531
Line: Provider Name--99.95557403564453
Word: Provider--99.96402740478516
Word: Name--99.94710540771484
Line: apply to this bill and are made a part thereof.)--99.89407348632812
Word: apply--99.95833587646484
Word: to--99.96741485595703
Word: this--99.9745101928711
Word: bill--99.93968200683594
Word: and--99.97300720214844
Word: are--99.96171569824219
Word: made--99.89042663574219
Word: a--99.845947265625
Word: part--99.88520050048828
Word: thereof.)--99.54454040527344
Line: 123 Main St.--99.49417877197266
Word: 123--99.85607147216797
Word: Main--99.46240997314453
Word: St.--99.16405487060547
Line: P.O. Box 12345--99.57518768310547
Word: P.O.--99.01138305664062
Word: Box--99.78797912597656
Word: 12345--99.92618560791016
Line: T. Jones--99.19181823730469
Word: T.--98.68270874023438
Word: Jones--99.70091247558594
Line: Seattle, WA 12345-2345--99.5401840209961
Word: Seattle--99.34123992919922
Word: WA--99.42269897460938
Word: 12345-2345--99.85662078857422
Line: Seattle, WA 12345-2345--99.57372283935547
Word: Seattle--99.43870544433594
Word: WA--99.42969512939453
Word: 12345-2345--99.85275268554688
Line: SIGNED--99.63964080810547
Word: SIGNED--99.63964080810547
Line: 02/14/06--99.35661315917969
Word: 02/14/06--99.35661315917969
Line: DATE--99.85914611816406
Word: DATE--99.85914611816406
Line: a. 1123456789--98.90579986572266
Word: a.--98.0036849975586
Word: 1123456789--99.80792236328125
Line: b.--95.2252426147461
Word: b.--95.2252426147461
Line: a1111222233--75.06988525390625
Word: a1111222233--75.06988525390625
Line: b.--92.06266784667969
Word: b.--92.06266784667969
Line: NUCC Instruction Manual available at: www.nucc.org--99.55908966064453
Word: NUCC--99.52008819580078
Word: Instruction--99.25165557861328
Word: Manual--99.96176147460938
Word: available--99.88623046875
Word: at--99.87802124023438
Word: www.nucc.org--98.8567886352539

```
Line: APPROVED OMB-0938-0999 FORM CMS-1500 (08/05)--99.3924789428711
Word: APPROVED--99.77681732177734
Word: OMB-0938-0999--99.3721923828125
Word: FORM--99.7832260131836
Word: CMS-1500--98.69024658203125
Word: (08/05)--99.33992767333984
Form (key/values)
=====
```

```
Get field by key (Phone Number:):
=====
```

```
Search field by key (address):
=====
```

3. Process Forms

```
In [41]: response = client.analyze_document(Document={'Bytes':bytearray(open('claim_form2.png', 'rb').read())}, FeatureTypes=['TABLES', 'FORMS'])
```

```
In [43]: for line, conf in process_text(response).items():  
         print(line, conf)
```


Counter({'WORD': 665, 'LINE': 323, 'CELL': 240, 'KEY_VALUE_SET': 170, 'SELECTION_ELEMENT': 28, 'PAGE': 1, 'TABLE': 1})

Sample 99.2040023803711
STERLING Option I* 92.85661315917969
1500 99.87867736816406
CMS-1500 Form 98.8382797241211
P.O. Box 69314 99.51289367675781
Harrisburg, PA 99.16020202636719
HEALTH INSURANCE CLAIM FORM 99.78480529785156
17106-9314 98.23118591308594
APPROVED BY NATIONAL UNIFORM CLAIM COMMITTEE 08/05 99.71517944335938
PICA 99.51951599121094
1 92.29202270507812
MEDICARE 99.66496276855469
MEDICAID 99.64067077636719
TRICARE 99.7130126953125
CHAMPVA 99.713623046875
GROUP 99.74991607666016
FECA 99.8226547241211
OTHER 99.85930633544922
INSURED'S I.D. NUMBER 98.99726867675781
(For Program in Item 1) 98.69245147705078
CHAMPUS 99.52824401855469
HEALTH PLAN 98.49276733398438
BLKLUNG 68.75041198730469
(Medicare #) 99.0288314819336
(Medicaid #) 98.23974609375
(Sponsor's SSN) 99.33599853515625
(Member ID#) 98.63519287109375
(SSN or ID) 98.56663513183594
(SSN) 99.95624542236328
(ID) 99.84123992919922
555-55-5555A 90.69723510742188
PATIENT'S NAME (Last Name, First Name, Middle Initial) 99.33985137939453
PATIENT'S BIRTH DATE 99.0514907836914
SEX 99.8617172241211
INSURED'S NAME (Last Name, First Name, Middle Initial) 99.23828125
MM 99.92182922363281
DD 99.7341537475586
Smith, Bob A. 99.63563537597656
12 85.32827758789062
18 98.33539581298828
36 99.692626953125
M 99.61351013183594
F 98.9181137084961
Same 99.6620864868164
5 99.912109375
PATIENT'S ADDRESS (No., Street) 99.75312042236328
6 99.93846130371094
PATIENT RELATIONSHIP TO INSURED 99.5580825805664
INSURED'S ADDRESS (No., Street) 99.7049331665039
123 Paradise Road 99.77042388916016
Self 99.37232971191406
Spouse 99.93319702148438
Child 99.81602478027344
Other 99.98143768310547
CITY 99.91665649414062
STATE 99.92900085449219
PATIENT STATUS 99.75460052490234
Seattle 99.79524230957031
WA 95.76644897460938
Single 99.89553833007812
Married 99.96807098388672
ZIP CODE 99.69156646728516

TELEPHONE (Include Area Code) 99.54116821289062
12345 99.90670013427734
Full-Time 99.2834243774414
Part-Time 99.26289367675781
(555) 555-1234 97.42251586914062
Employed 99.93228912353516
Student 99.91377258300781
(97.68653106689453
) 96.61254119873047
9 OTHER INSURED'S NAME (Last Name, First Name, Middle Initial) 98.99291229248047
10 90.78369903564453
IS PATIENT'S CONDITION RELATED TO: 99.34259796142578
I1 39.446048736572266
INSURED'S POLICY GROUP OR FECA NUMBER 99.80325317382812
None 99.81783294677734
a 84.94026947021484
OTHER INSURED'S POLICY OR GROUP NUMBER 99.8234634399414
EMPLOYMENT? (Current or Previous) 99.4709701538086
INSURED'S DATE OF BIRTH 99.81141662597656
YY 99.93072509765625
YES 99.94803619384766
NO 99.83475494384766
b 88.09770202636719
OTHER INSURED'S DATE OF BIRTH 99.853515625
AUTO ACCIDENT? 99.65882110595703
PLACE (State) 99.74478912353516
EMPLOYER'S NAME OR SCHOOL NAME 99.801025390625
C 62.404388427734375
OTHER ACCIDENT? 99.82905578613281
INSURANCE PLAN NAME OR PROGRAM NAME 99.80963134765625
d 86.32622528076172
RESERVED FOR LOCAL USE 99.75220489501953
IS THERE ANOTHER HEALTH BENEFIT PLAN? 99.44775390625
If yes, return to and complete item 9 a-d. 99.22281646728516
READ BACK OF FORM BEFORE COMPLETING & SIGNING THIS FORM. 99.8374252319336
13 91.05573272705078
INSURED'S OR AUTHORIZED PERSON'S SIGNATURE I authorize 97.09980010986328
PATIENT'S OR AUTHORIZED PERSON'S SIGNATURE I authorize the release of any medical or
other information necessary 99.18934631347656
payment of medical benefits to the undersigned physician or supplier for 99.93105316
16211
to 99.90132141113281
process this claim. I also request payment of government benefits either to myself o
r to the party who accepts assignment 97.83557891845703
services described below. 99.4931640625
below. 97.58470916748047
SIGNED 99.63964080810547
Signature on File 99.64851379394531
DATE 99.85914611816406
02/14/2006 99.54737091064453
DATE OF CURRENT 99.20795440673828
ILLNESS (First symptom) OR 99.58154296875
15 87.49356079101562
IF PATIENT HAS HAD SAME OR SIMILAR ILLNESS. 95.59014129638672
DATES PATIENT UNABLE TO WORK IN CURRENT OCCUPATION 99.65347290039062
INJURY (Accident) OR 98.7904281616211
GIVE FIRST DATE 99.73223114013672
PREGNANCY(LMP 82.60833740234375
FROM 99.86981201171875
TO 99.91644287109375
NAME OF REFERRING PROVIDER OR OTHER SOURCE 99.72452545166016
17a. 97.01935577392578
A55555 99.65928649902344
HOSPITALIZATION DATES RELATED TO CURRENT SERVICES 99.05071258544922
K. Brown, MD 99.71831512451172
17b. 99.559326171875

NPI 99.83223724365234
1234567890 99.73991394042969
19 87.10047912597656
OUTSIDE LAB? 99.86074829101562
\$ CHARGES 98.67833709716797
DIAGNOSIS OR NATURE OF ILLNESS OR INJURY (Relate Items 1, 2, 3 or 4 to Item 24E by Line)
98.28811645507812
MEDICAID RESUBMISSION 99.46609497070312
CODE 99.62027740478516
ORIGINAL REF. NO. 97.27397918701172
1. 99.06803894042969
250 00 93.9342041015625
3. 99.3321304321289
PRIOR AUTHORIZATION NUMBER 99.75116729736328
2. 99.24127197265625
V58 61 98.38299560546875
50D0000000 72.79759979248047
4. 97.30419158935547
DATE(S) OF SERVICE 99.60625457763672
PROCEDURES, SERVICES, OR SUPPLIES 91.64522552490234
g 86.7680892944336
From 99.97088623046875
To 99.87071990966797
PLACE OF 93.83268737792969
(Explain Unusual Circumstances) 98.87229919433594
DIAGNOSIS 99.55359649658203
DAYS 99.74346160888672
EPSDT 95.35578155517578
OR 99.9030532836914
Family 98.11644744873047
ID. 96.57817077636719
RENDERING 99.45027923583984
SERVICE 99.76351165771484
EMG 99.65016174316406
CPT/HCPCS 99.31956481933594
MODIFIER 99.23723602294922
POINTER 99.68673706054688
UNITS 99.91250610351562
Plan 98.7308349609375
QUAL. 75.26940155029297
PROVIDER ID. # 97.2741928100586
02 93.05805206298828
05 98.46060180664062
06 98.58275604248047
11 98.61080932617188
99212 99.73946380615234
1,2 91.5550537109375
55 99.57107543945312
00 94.71952056884766
3322221111 97.91637420654297
2 99.84999084472656
85610 99.66361236572266
30 00 99.20922088623047
3 99.65670013427734
85635 99.80066680908203
30 87.44119262695312
4 99.61223602294922
25 85.28305053710938
FEDERAL TAX I.D. NUMBER 99.33308410644531
SSN EIN 99.50350189208984
PATIENT'S ACCOUNT NO. 99.73149871826172
ACCEPT ASSIGNMENT? 99.17857360839844
TOTAL CHARGE 99.57653045654297
AMOUNT PAID 99.65518188476562
BALANCE DUE 99.21553802490234
For govt. claims see back) 90.57893371582031

99-1234567 99.78290557861328
12345987 99.9190673828125
\$ 99.44137573242188
115 98.64656066894531
31 91.94380950927734
SIGNATURE OF PHYSICIAN OR SUPPLIER 99.79364013671875
SERVICE FACILITY LOCATION INFORMATION 99.81971740722656
BILLING PROVIDER INFO & PH # 91.79489135742188
INCLUDING DEGREES OR CREDENTIALS 99.7945785522461
(555)555-5555 90.55096435546875
(I certify that the statements on the reverse 98.12765502929688
Office Name 99.95519256591797
Provider Name 99.95557403564453
apply to this bill and are made a part thereof.) 99.89407348632812
123 Main St. 99.49417877197266
P.O. Box 12345 99.57518768310547
T. Jones 99.19181823730469
Seattle, WA 12345-2345 99.57372283935547
02/14/06 99.35661315917969
a. 1123456789 98.90579986572266
b. 92.06266784667969
a1111222233 75.06988525390625
NUCC Instruction Manual available at: www.nucc.org 99.55908966064453
APPROVED OMB-0938-0999 FORM CMS-1500 (08/05) 99.3924789428711

In [60]: `from process_forms import get_kv_map, get_kv_relationship, print_kvs`

```
In [61]: key_map, value_map, block_map = get_kv_map(response)

# Get Key Value relationship
kvs = get_kv_relationship(key_map, value_map, block_map)
print("\n\n== FOUND KEY : VALUE pairs ===\n")
print_kvs(kvs)
```

== FOUND KEY : VALUE pairs ==

YES : X
STATE :
PATIENT'S ACCOUNT NO. : 12345987
TELEPHONE (Include Area Code) : ()
ZIP CODE :
Other :
NO : X
EMPLOYER'S NAME OR SCHOOL NAME :
(Medicare #) :
PATIENT'S ADDRESS (No., Street) : 123 Paradise Road
Married :
Part-Time Student :
(Member ID#) :
d INSURANCE PLAN NAME OR PROGRAM NAME :
CITY :
OTHER INSURED'S POLICY OR GROUP NUMBER :
DD :
X 30 BALANCE DUE : \$ 115 00
Single : X
OTHER INSURED'S NAME (Last Name, First Name, Middle Initial) :
(ID) : X
Self : X
INSURED'S ADDRESS (No., Street) : Same
FEDERAL TAX I.D. NUMBER : 99-1234567
DATE : 02/14/2006
SIGNED :
INSURANCE PLAN NAME OR PROGRAM NAME :
PATIENT'S NAME (Last Name, First Name, Middle Initial) : Smith, Bob A.
M :
NAME OF REFERRING PROVIDER OR OTHER SOURCE : K. Brown, MD
MM : 12
IS PATIENT'S CONDITION RELATED TO: :
SERVICE FACILITY LOCATION INFORMATION : Office Name 123 Main St. Seattle, WA 12345-2345
INSURED'S POLICY GROUP OR FECA NUMBER : None
INSURED'S I.D. NUMBER : 555-55-5555A
RESERVED FOR LOCAL USE :
(Medicaid #) :
INSURED'S NAME (Last Name, First Name, Middle Initial) : Same
AMOUNT PAID : \$
PICA :
Employed :
19 RESERVED FOR LOCAL USE :
MEDICARE : 1
3. :
YY :
4. :
TOTAL CHARGE : \$ 115 00
PRIOR AUTHORIZATION NUMBER : 50D0000000
17b. NPI : 1234567890
SSN EIN : X
(For Program in Item 1) :
2. : V58 61
ORIGINAL REF. NO. :

4. Process Tables

```
In [62]: response = client.analyze_document(Document={'Bytes': bytearray(open('paper_book.png',  
'rb').read())}, FeatureTypes=['TABLES'])
```

In [63]: `from process_tables import get_table_csv_results`

```
table_csv = get_table_csv_results(response)
```

```
output_file = 'output.csv'
```

```
# replace content
```

```
with open(output_file, "wt") as fout:  
    fout.write(table_csv)
```

```
# show the results
```

```
print('CSV OUTPUT FILE: ', output_file)
```

```
[{'BlockType': 'PAGE',
  'Geometry': {'BoundingBox': {'Height': 1.0,
                                'Left': 0.0,
                                'Top': 0.0,
                                'Width': 0.9995555281639099},
    'Polygon': [{'X': 0.0, 'Y': 0.0},
                  {'X': 0.9995555281639099,
                   'Y': 1.0986663850255047e-16},
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[illegible]


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CSV OUTPUT FILE:  output.csv

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In [66]: response = client.detect_document_text(Document={'Bytes':bytearray(open('paper_book.p
ng', 'rb').read())}) # local or S3
for line, conf in process_text(response).items():
    print(line, conf)
```

Counter({'WORD': 532, 'LINE': 100, 'PAGE': 1})

Image denoising with a denoising 99.93093872070312

encoder 99.87712860107422

decoder 99.86155700683594

autoencoder 99.80572509765625

add 99.91502380371094

random 99.95540618896484

An autoencoder is a neural network often used to learn an efficient representation of input 99.93888092041016

noise 99.91883850097656

data (typically in a reduced dimension) in an unsupervised way. A denoising autoencoder 99.94125366210938

ReLU 95.15870666503906

sigmoid 99.65696716308594

is a stochastic version of an autoencoder that takes (similar) inputs corrupted by noise and 99.94992065429688

is trained to recover the original inputs (typically using some deep learning library 99.94937896728516

functions) in order to obtain a good representation We can use denoising autoencoders to 97.68396759033203

learn robust representations from a set of similar input images (corrupted with noise) and 99.84026336669922

then generate the denoised images. 99.8445816040039

Argument 99.92906951904297

Description 99.91153717041016

X, Y, Z 80.46600341796875

Data values as 2D arrays 99.83074951171875

rstride 97.15772247314453

Array row stride (step size) 93.43936157226562

estride 67.90511322021484

Array column stride (step size) 99.45004272460938

128 99.82537841796875

cmap 98.81324005126953

A colormap for the surface patches 99.88323211669922

nodes 99.95399475097656

bottleneck 99.3926010131836

512 99.9449234008789

Parameter 99.90387725830078

img 97.58374786376953

The input (grayscale) image (1) 96.03781127929688

threshold1 98.15653991699219

The first threshold for the hysteresis 99.97089385986328

threshold2 99.94257354736328

The second threshold for the hysteresis 99.97245788574219

50*37 98.32971954345703

apertureSize 99.90386962890625

Aperture size for the Sobel operator 99.91321563720703

input 99.7529525756836

hidden 99.89955139160156

output 99.75762939453125

L2gradient 97.40463256835938

A flag, indicating whether a more accurate L2 norm - $\cdot (31/3y)^2$) should be used to 92.2908935546875

(original) 99.74473571777344

(noisy) 99.5938720703125

(denoised) 99.64037322998047

calculate the image gradient magnitude (L2gradient-true) or whether the default L1 norm = $\|I\|_1$ 96.76067352294922

$\|I\|_1 +$ is enough (L2gradient-false) 79.67220306396484

Temporal Neighborhood Discovery using Markov Models 99.75790405273438

Sandipan Dey T. Vandana P. Janeja \$, Aryya Gangopadhyay I 85.19896697998047

Department of Computer Science & Electrical Engineering 98.27838897705078

Department of Information Systems 84.08698272705078

University of Maryland, Baltimore County 99.82064056396484

Baltimore, MD, USA 99.07388305664062

Email: sandip2, vjaneja, gangopad@umbc.edu 98.62071228027344

ABSTRACT 99.81206512451172

data this can be done by discretizing the data into relevant 99.91567993164062
Temporal data, which is a sequence of data tuples mea- 99.75872802734375
intervals capturing the similar behavior in various intervals 99.93617248535156
sured at successive time instances, is typically very large. 99.80142211914062
of time [6], [13], [14]. The intervals can be considered as 98.97154235839844
Hence instead of mining the entire data, we are interested 99.83184814453125
the temporal neighborhoods which are relevant for knowl- 99.94110107421875
in dividing the huge data into several smaller intervals of 99.94092559814453
edge discovery such as discovery of anomalous intervals or 99.92533111572266
interest which we call temporal neighborhoods. In this paper 99.76227569580078
anomalous points within intervals. 99.73489379882812
we propose an approach to generate temporal neighborhoods 99.9198226928711
In this paper we focus on discovering temporal neighbor- 99.91238403320312
through unequal depth discretization. 98.13516235351562
hoods by discretization of temporal data by dividing it into 99.96033477783203
We describe two novel algorithms (a) Similarity based 99.8994140625
unequal depth bins. This is useful in various application 99.88398742675781
Merging (SMerg) and, (b) Stationary distribution based 99.1777572631836
domains. For instance, if we want to discover peak periods 99.76167297363281
Merging (StMerg). These algorithms are based on the 99.49461364746094
in traffic monitoring data or discover unusual peak periods 99.942138671875
robust framework of Markov models and the Markov Sta- 99.84129333496094
on some days, we can do so by discovering the intervals and 99.7374267578125
tionary distribution respectively. We identify temporal neigh- 99.8141860961914
quantifying the behavior of the objects in the interval using 99.91832733154297
borhoods with distinct demarcations based on unequal depth 99.90474700927734
approximations. Secondly, if we want to discover specific 99.68135070800781
discretization of the data. We discuss detailed experimental 99.76013946533203
local anomalies in the temporal data then we can mine the 99.93480682373047
results in both synthetic and real world data Specifically we 93.55091094970703
intervals and compare the distance of the data points in 99.93971252441406

In []: