In [ ]:

```
pip install nltk
```

Looking in indexes: https://pypi.org/simple, (https://pypi.org/simple,) http
s://us-python.pkg.dev/colab-wheels/public/simple/ (https://us-python.pkg.dev/co
lab-wheels/public/simple/)
Requirement already satisfied: nltk in /usr/local/lib/python3.8/dist-packages
 (3.7)
Requirement already satisfied: joblib in /usr/local/lib/python3.8/dist-packages
(from nltk) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.8/dist
-packages (from nltk) (2022.6.2)
Requirement already satisfied: tqdm in /usr/local/lib/python3.8/dist-packages
 (from nltk) (4.64.1)
Requirement already satisfied: click in /usr/local/lib/python3.8/dist-packages
 (from nltk) (7.1.2)

In [ ]: `pip install pyresparser`

Looking in indexes: https://pypi.org/simple, (https://pypi.org/simple,) http
s://us-python.pkg.dev/colab-wheels/public/simple/ (https://us-python.pkg.dev/co
lab-wheels/public/simple/)
Collecting pyresparser
  Downloading pyresparser-1.0.6-py3-none-any.whl (4.2 MB)
     |████████████████████████████████| 4.2 MB 5.2 MB/s
Collecting pycryptodome>=3.8.2
  Downloading pycryptodome-3.16.0-cp35-abi3-manylinux_2_5_x86_64.manylinux1_x86
_64.manylinux_2_12_x86_64.manylinux2010_x86_64.whl (2.3 MB)
     |████████████████████████████████| 2.3 MB 55.3 MB/s
Requirement already satisfied: blis>=0.2.4 in /usr/local/lib/python3.8/dist-pac
kages (from pyresparser) (0.7.9)
Requirement already satisfied: cymem>=2.0.2 in /usr/local/lib/python3.8/dist-pa
ckages (from pyresparser) (2.0.7)
Requirement already satisfied: nltk>=3.4.3 in /usr/local/lib/python3.8/dist-pac
kages (from pyresparser) (3.7)
Requirement already satisfied: pandas>=0.24.2 in /usr/local/lib/python3.8/dist-
packages (from pyresparser) (1.3.5)
Requirement already satisfied: python-dateutil>=2.8.0 in /usr/local/lib/python
3.8/dist-packages (from pyresparser) (2.8.2)
Requirement already satisfied: srsly>=0.0.7 in /usr/local/lib/python3.8/dist-pa
ckages (from pyresparser) (2.4.5)
Requirement already satisfied: chardet>=3.0.4 in /usr/local/lib/python3.8/dist-
packages (from pyresparser) (3.0.4)
Requirement already satisfied: spacy>=2.1.4 in /usr/local/lib/python3.8/dist-pa
ckages (from pyresparser) (3.4.3)
Requirement already satisfied: tqdm>=4.32.2 in /usr/local/lib/python3.8/dist-pa
ckages (from pyresparser) (4.64.1)
Requirement already satisfied: wasabi>=0.2.2 in /usr/local/lib/python3.8/dist-p
ackages (from pyresparser) (0.10.1)
Requirement already satisfied: certifi>=2019.6.16 in /usr/local/lib/python3.8/d
ist-packages (from pyresparser) (2022.9.24)
Requirement already satisfied: attrs>=19.1.0 in /usr/local/lib/python3.8/dist-p
ackages (from pyresparser) (22.1.0)
Requirement already satisfied: numpy>=1.16.4 in /usr/local/lib/python3.8/dist-p
ackages (from pyresparser) (1.21.6)
Requirement already satisfied: requests>=2.22.0 in /usr/local/lib/python3.8/dis
t-packages (from pyresparser) (2.23.0)
Collecting pdfminer.six>=20181108
  Downloading pdfminer.six-20221105-py3-none-any.whl (5.6 MB)
     |████████████████████████████████| 5.6 MB 37.3 MB/s
Requirement already satisfied: six>=1.12.0 in /usr/local/lib/python3.8/dist-pac
kages (from pyresparser) (1.15.0)
Requirement already satisfied: sortedcontainers>=2.1.0 in /usr/local/lib/python
3.8/dist-packages (from pyresparser) (2.4.0)
Requirement already satisfied: pyrsistent>=0.15.2 in /usr/local/lib/python3.8/d
ist-packages (from pyresparser) (0.19.2)
Requirement already satisfied: pytz>=2019.1 in /usr/local/lib/python3.8/dist-pa
ckages (from pyresparser) (2022.6)
Requirement already satisfied: thinc>=7.0.4 in /usr/local/lib/python3.8/dist-pa
ckages (from pyresparser) (8.1.5)
Collecting urllib3>=1.25.3
  Downloading urllib3-1.26.13-py2.py3-none-any.whl (140 kB)
     |████████████████████████████████| 140 kB 48.7 MB/s

```
Collecting docx2txt>=0.7
  Downloading docx2txt-0.8.tar.gz (2.8 kB)
Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.8/dist-packa
ges (from pyresparser) (2.10)
Requirement already satisfied: preshed>=2.0.1 in /usr/local/lib/python3.8/dist-
packages (from pyresparser) (3.0.8)
Requirement already satisfied: jsonschema>=3.0.1 in /usr/local/lib/python3.8/di
st-packages (from pyresparser) (4.3.3)
Requirement already satisfied: importlib-resources>=1.4.0 in /usr/local/lib/pyt
hon3.8/dist-packages (from jsonschema>=3.0.1->pyresparser) (5.10.0)
Requirement already satisfied: zipp>=3.1.0 in /usr/local/lib/python3.8/dist-pac
kages (from importlib-resources>=1.4.0->jsonschema>=3.0.1->pyresparser) (3.11.
0)
Requirement already satisfied: click in /usr/local/lib/python3.8/dist-packages
 (from nltk>=3.4.3->pyresparser) (7.1.2)
Requirement already satisfied: joblib in /usr/local/lib/python3.8/dist-packages
(from nltk>=3.4.3->pyresparser) (1.2.0)
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.8/dist
-packages (from nltk>=3.4.3->pyresparser) (2022.6.2)
Collecting cryptography>=36.0.0
  Downloading cryptography-38.0.4-cp36-abi3-manylinux_2_24_x86_64.whl (4.0 MB)
     |████████████████████████████████| 4.0 MB 12.7 MB/s
Requirement already satisfied: charset-normalizer>=2.0.0 in /usr/local/lib/pyth
on3.8/dist-packages (from pdfminer.six>=20181108->pyresparser) (2.1.1)
Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.8/dist-pack
ages (from cryptography>=36.0.0->pdfminer.six>=20181108->pyresparser) (1.15.1)
Requirement already satisfied: pycparser in /usr/local/lib/python3.8/dist-packa
ges (from cffi>=1.12->cryptography>=36.0.0->pdfminer.six>=20181108->pyresparse
r) (2.21)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/pyth
on3.8/dist-packages (from preshed>=2.0.1->pyresparser) (1.0.9)
Collecting urllib3>=1.25.3
  Downloading urllib3-1.25.11-py2.py3-none-any.whl (127 kB)
     |████████████████████████████████| 127 kB 35.2 MB/s
Requirement already satisfied: spacy-loggers<2.0.0,>=1.0.0 in /usr/local/lib/py
thon3.8/dist-packages (from spacy>=2.1.4->pyresparser) (1.0.3)
Requirement already satisfied: setuptools in /usr/local/lib/python3.8/dist-pack
ages (from spacy>=2.1.4->pyresparser) (57.4.0)
Requirement already satisfied: pydantic!=1.8,!=1.8.1,<1.11.0,>=1.7.4 in /usr/lo
cal/lib/python3.8/dist-packages (from spacy>=2.1.4->pyresparser) (1.10.2)
Requirement already satisfied: typer<0.8.0,>=0.3.0 in /usr/local/lib/python3.8/
dist-packages (from spacy>=2.1.4->pyresparser) (0.7.0)
Requirement already satisfied: langcodes<4.0.0,>=3.2.0 in /usr/local/lib/python
3.8/dist-packages (from spacy>=2.1.4->pyresparser) (3.3.0)
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.8/dist
-packages (from spacy>=2.1.4->pyresparser) (21.3)
Requirement already satisfied: spacy-legacy<3.1.0,>=3.0.10 in /usr/local/lib/py
thon3.8/dist-packages (from spacy>=2.1.4->pyresparser) (3.0.10)
Requirement already satisfied: pathy>=0.3.5 in /usr/local/lib/python3.8/dist-pa
ckages (from spacy>=2.1.4->pyresparser) (0.10.0)
Requirement already satisfied: catalogue<2.1.0,>=2.0.6 in /usr/local/lib/python
3.8/dist-packages (from spacy>=2.1.4->pyresparser) (2.0.8)
Requirement already satisfied: jinja2 in /usr/local/lib/python3.8/dist-packages
(from spacy>=2.1.4->pyresparser) (2.11.3)
Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in /usr/local/lib/pytho
n3.8/dist-packages (from packaging>=20.0->spacy>=2.1.4->pyresparser) (3.0.9)
Requirement already satisfied: smart-open<6.0.0,>=5.2.1 in /usr/local/lib/pytho
```

```
n3.8/dist-packages (from pathy>=0.3.5->spacy>=2.1.4->pyresparser) (5.2.1)
Requirement already satisfied: typing-extensions>=4.1.0 in /usr/local/lib/pytho
n3.8/dist-packages (from pydantic!=1.8,!=1.8.1,<1.11.0,>=1.7.4->spacy>=2.1.4->p
yresparser) (4.4.0)
Requirement already satisfied: confection<1.0.0,>=0.0.1 in /usr/local/lib/pytho
n3.8/dist-packages (from thinc>=7.0.4->pyresparser) (0.0.3)
Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.8/dis
t-packages (from jinja2->spacy>=2.1.4->pyresparser) (2.0.1)
Building wheels for collected packages: docx2txt
  Building wheel for docx2txt (setup.py) ... done
  Created wheel for docx2txt: filename=docx2txt-0.8-py3-none-any.whl size=3980
 sha256=083946e5d9ee455ddacaef397a48ad1726d1cbe701878a119f2c7a9439a28ce4
  Stored in directory: /root/.cache/pip/wheels/55/f0/2c/81637d42670985178b77df6
d41b9b6c6dc18c94818447414b9
Successfully built docx2txt
Installing collected packages: urllib3, cryptography, pycryptodome, pdfminer.si
x, docx2txt, pyresparser
  Attempting uninstall: urllib3
    Found existing installation: urllib3 1.24.3
    Uninstalling urllib3-1.24.3:
      Successfully uninstalled urllib3-1.24.3
Successfully installed cryptography-38.0.4 docx2txt-0.8 pdfminer.six-20221105 p
ycryptodome-3.16.0 pyresparser-1.0.6 urllib3-1.25.11
```

In [ ]: `pip install spacy==2.3.5`

```
Looking in indexes: https://pypi.org/simple, (https://pypi.org/simple,) http
s://us-python.pkg.dev/colab-wheels/public/simple/ (https://us-python.pkg.dev/co
lab-wheels/public/simple/)
Collecting spacy==2.3.5
  Downloading spacy-2.3.5-cp38-cp38-manylinux2014_x86_64.whl (10.5 MB)
     |████████████████████████████████| 10.5 MB 5.2 MB/s
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/pyth
on3.8/dist-packages (from spacy==2.3.5) (1.0.9)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.8/
dist-packages (from spacy==2.3.5) (4.64.1)
Requirement already satisfied: blis<0.8.0,>=0.4.0 in /usr/local/lib/python3.8/d
ist-packages (from spacy==2.3.5) (0.7.9)
Collecting srsly<1.1.0,>=1.0.2
  Downloading srsly-1.0.6-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.
whl (211 kB)
     |████████████████████████████████| 211 kB 70.6 MB/s
Collecting plac<1.2.0,>=0.9.6
  Downloading plac-1.1.3-py2.py3-none-any.whl (20 kB)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.
8/dist-packages (from spacy==2.3.5) (3.0.8)
Collecting catalogue<1.1.0,>=0.0.7
  Downloading catalogue-1.0.2-py2.py3-none-any.whl (16 kB)
Collecting thinc<7.5.0,>=7.4.1
  Downloading thinc-7.4.6-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.
whl (1.1 MB)
     |████████████████████████████████| 1.1 MB 62.2 MB/s
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.8/
dist-packages (from spacy==2.3.5) (2.0.7)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python
3.8/dist-packages (from spacy==2.3.5) (2.23.0)
Requirement already satisfied: wasabi<1.1.0,>=0.4.0 in /usr/local/lib/python3.
8/dist-packages (from spacy==2.3.5) (0.10.1)
Requirement already satisfied: setuptools in /usr/local/lib/python3.8/dist-pack
ages (from spacy==2.3.5) (57.4.0)
Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.8/dist-p
ackages (from spacy==2.3.5) (1.21.6)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/
local/lib/python3.8/dist-packages (from requests<3.0.0,>=2.13.0->spacy==2.3.5)
 (1.25.11)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.8/d
ist-packages (from requests<3.0.0,>=2.13.0->spacy==2.3.5) (2022.9.24)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.8/dist-pa
ckages (from requests<3.0.0,>=2.13.0->spacy==2.3.5) (2.10)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.8/di
st-packages (from requests<3.0.0,>=2.13.0->spacy==2.3.5) (3.0.4)
Installing collected packages: srsly, plac, catalogue, thinc, spacy
  Attempting uninstall: srsly
    Found existing installation: srsly 2.4.5
    Uninstalling srsly-2.4.5:
      Successfully uninstalled srsly-2.4.5
  Attempting uninstall: catalogue
    Found existing installation: catalogue 2.0.8
    Uninstalling catalogue-2.0.8:
      Successfully uninstalled catalogue-2.0.8
```

```
    Attempting uninstall: thinc
      Found existing installation: thinc 8.1.5
      Uninstalling thinc-8.1.5:
        Successfully uninstalled thinc-8.1.5
    Attempting uninstall: spacy
      Found existing installation: spacy 3.4.3
      Uninstalling spacy-3.4.3:
        Successfully uninstalled spacy-3.4.3
ERROR: pip's dependency resolver does not currently take into account all the p
ackages that are installed. This behaviour is the source of the following depen
dency conflicts.
en-core-web-sm 3.4.1 requires spacy<3.5.0,>=3.4.0, but you have spacy 2.3.5 whi
ch is incompatible.
confection 0.0.3 requires srsly<3.0.0,>=2.4.0, but you have srsly 1.0.6 which i
s incompatible.
Successfully installed catalogue-1.0.2 plac-1.1.3 spacy-2.3.5 srsly-1.0.6 thinc
-7.4.6
```

In [ ]: `pip install https://github.com/explosion/spacy-models/releases/download/en_core_w`

Looking in indexes: https://pypi.org/simple, (https://pypi.org/simple,) http
s://us-python.pkg.dev/colab-wheels/public/simple/ (https://us-python.pkg.dev/co
lab-wheels/public/simple/)
Collecting https://github.com/explosion/spacy-models/releases/download/en_core_
web_sm-2.3.1/en_core_web_sm-2.3.1.tar.gz (https://github.com/explosion/spacy-mo
dels/releases/download/en_core_web_sm-2.3.1/en_core_web_sm-2.3.1.tar.gz)
  Downloading https://github.com/explosion/spacy-models/releases/download/en_co
re_web_sm-2.3.1/en_core_web_sm-2.3.1.tar.gz (https://github.com/explosion/spacy
-models/releases/download/en_core_web_sm-2.3.1/en_core_web_sm-2.3.1.tar.gz) (1
2.0 MB)
                    |████████████████████████████| 12.0 MB 3.9 MB/s
Requirement already satisfied: spacy<2.4.0,>=2.3.0 in /usr/local/lib/python3.8/
dist-packages (from en-core-web-sm==2.3.1) (2.3.5)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in /usr/local/lib/python
3.8/dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (2.23.0)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /usr/local/lib/python3.8/
dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (4.64.1)
Requirement already satisfied: plac<1.2.0,>=0.9.6 in /usr/local/lib/python3.8/d
ist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (1.1.3)
Requirement already satisfied: blis<0.8.0,>=0.4.0 in /usr/local/lib/python3.8/d
ist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (0.7.9)
Requirement already satisfied: cymem<2.1.0,>=2.0.2 in /usr/local/lib/python3.8/
dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (2.0.7)
Requirement already satisfied: setuptools in /usr/local/lib/python3.8/dist-pack
ages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (57.4.0)
Requirement already satisfied: thinc<7.5.0,>=7.4.1 in /usr/local/lib/python3.8/
dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (7.4.6)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /usr/local/lib/pyth
on3.8/dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (1.0.9)
Requirement already satisfied: catalogue<1.1.0,>=0.0.7 in /usr/local/lib/python
3.8/dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (1.0.2)
Requirement already satisfied: numpy>=1.15.0 in /usr/local/lib/python3.8/dist-p
ackages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (1.21.6)
Requirement already satisfied: srsly<1.1.0,>=1.0.2 in /usr/local/lib/python3.8/
dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (1.0.6)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /usr/local/lib/python3.
8/dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (3.0.8)
Requirement already satisfied: wasabi<1.1.0,>=0.4.0 in /usr/local/lib/python3.
8/dist-packages (from spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.1) (0.10.1)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.8/dist-pa
ckages (from requests<3.0.0,>=2.13.0->spacy<2.4.0,>=2.3.0->en-core-web-sm==2.3.
1) (2.10)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.8/di
st-packages (from requests<3.0.0,>=2.13.0->spacy<2.4.0,>=2.3.0->en-core-web-sm=
=2.3.1) (3.0.4)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.8/d
ist-packages (from requests<3.0.0,>=2.13.0->spacy<2.4.0,>=2.3.0->en-core-web-sm
==2.3.1) (2022.9.24)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/
local/lib/python3.8/dist-packages (from requests<3.0.0,>=2.13.0->spacy<2.4.0,>=
2.3.0->en-core-web-sm==2.3.1) (1.25.11)
Building wheels for collected packages: en-core-web-sm
  Building wheel for en-core-web-sm (setup.py) ... done
  Created wheel for en-core-web-sm: filename=en_core_web_sm-2.3.1-py3-none-any.

```
whl size=12047104 sha256=9a755e550064a97a2b78125e685aa1971986b847354de5a21f9493
3683207988
  Stored in directory: /root/.cache/pip/wheels/ee/4d/f7/563214122be1540b5f9197b
52cb3ddb9c4a8070808b22d5a84
Successfully built en-core-web-sm
Installing collected packages: en-core-web-sm
  Attempting uninstall: en-core-web-sm
    Found existing installation: en-core-web-sm 3.4.1
    Uninstalling en-core-web-sm-3.4.1:
      Successfully uninstalled en-core-web-sm-3.4.1
Successfully installed en-core-web-sm-2.3.1
```

In [ ]:
```
pip install python-docx
```

```
Looking in indexes: https://pypi.org/simple, (https://pypi.org/simple,) http
s://us-python.pkg.dev/colab-wheels/public/simple/ (https://us-python.pkg.dev/co
lab-wheels/public/simple/)
Collecting python-docx
  Downloading python-docx-0.8.11.tar.gz (5.6 MB)
     |████████████████████████████████| 5.6 MB 5.2 MB/s
Requirement already satisfied: lxml>=2.3.2 in /usr/local/lib/python3.8/dist-pac
kages (from python-docx) (4.9.1)
Building wheels for collected packages: python-docx
  Building wheel for python-docx (setup.py) ... done
  Created wheel for python-docx: filename=python_docx-0.8.11-py3-none-any.whl s
ize=184505 sha256=d9e613c3bcbcce57a3068342cf7c216ea39bc788b5ec568f54ea402d22a37
b1e
  Stored in directory: /root/.cache/pip/wheels/32/b8/b2/c4c2b95765e615fe139b0b1
7b5ea7c0e1b6519b0a9ec8fb34d
Successfully built python-docx
Installing collected packages: python-docx
Successfully installed python-docx-0.8.11
```

In [ ]:
```python
import nltk
nltk.download('stopwords')
from pyresparser import ResumeParser
import os
from docx import Document
```

```
[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data]   Unzipping corpora/stopwords.zip.
```

In [ ]:
```python
##file format should be in .txt , .docx or .pdf only
filed=input()
```

```
/content/2 Dr. sarim-CV.pdf
```

```
In [ ]: try:
            doc = Document()
            with open(filed, 'r') as file:
                doc.add_paragraph(file.read())
            doc.save("text.docx")
            data = ResumeParser('text.docx').get_extracted_data()
            print(data['skills'])
        except:
            data = ResumeParser(filed).get_extracted_data()
            print(data['skills'])
```

/usr/local/lib/python3.8/dist-packages/spacy/util.py:275: UserWarning: [W031] M
odel 'en_training' (0.0.0) requires spaCy v2.1 and is incompatible with the cur
rent spaCy version (2.3.5). This may lead to unexpected results or runtime erro
rs. To resolve this, download a newer compatible model or retrain your custom m
odel with the current spaCy version. For more details and available updates, ru
n: python -m spacy validate
  warnings.warn(warn_msg)

['Website', 'Advertising', 'C', 'Specifications', 'Sdlc', 'Mathematics', 'Jos
e', 'Recruitment', 'Hotel', 'Security', 'Training', 'Physics', 'Chemistry', 'Sy
stem', 'Public relations', 'Reporting', 'Plan', 'English', 'Database', 'Teachin
g', 'Facebook', 'Big data', 'Php', 'Brand', 'Android', 'Audit', 'Email', 'Codin
g', 'Access', 'Compliance', 'Writing', 'Social media', 'Saas', 'Design', 'Lifec
ycle', 'Test case', 'Engineering', 'Metrics', 'Testing', 'Test cases', 'Startu
p', 'Queries', 'Cloud', 'Analytics']

In [ ]: `data`

Out[34]:
```
{'name': 'Ali Shan',
 'email': 'aleeshan.786@gmail.com',
 'mobile_number': '331-2032763',
 'skills': ['Website',
  'Advertising',
  'C',
  'Specifications',
  'Sdlc',
  'Mathematics',
  'Jose',
  'Recruitment',
  'Hotel',
  'Security',
  'Training',
  'Physics',
  'Chemistry',
  'System',
  'Public relations',
  'Reporting',
  'Plan',
  'English',
  'Database',
  'Teaching',
  'Facebook',
  'Big data',
  'Php',
  'Brand',
  'Android',
  'Audit',
  'Email',
  'Coding',
  'Access',
  'Compliance',
  'Writing',
  'Social media',
  'Saas',
  'Design',
  'Lifecycle',
  'Test case',
  'Engineering',
  'Metrics',
  'Testing',
  'Test cases',
  'Startup',
  'Queries',
  'Cloud',
  'Analytics'],
 'college_name': None,
 'degree': ['Bachelors in Software Engineering'],
 'designation': ['E-CLINIC', 'Wireless Internet Manager'],
 'experience': ['√  Have good domain knowledge of Cloud Security Applicatio
ns',
  '√  Analyzing bugs and interacting with development team members in fixin
g the defects.',
```

```
          'Languages',
          '√  English and Urdu'],
        'company_names': None,
        'no_of_pages': 7,
        'total_experience': 0.0}
```

In [ ]:
```python
import pandas as pd
```

In [ ]:
```python
data1=pd.DataFrame.from_dict(data, orient='index')
data1
```

Out[36]:

	0
name	Ali Shan
email	aleeshan.786@gmail.com
mobile_number	331-2032763
skills	[Website, Advertising, C, Specifications, Sdlc...
college_name	None
degree	[Bachelors in Software Engineering]
designation	[E-CLINIC, Wireless Internet Manager]
experience	[√ Have good domain knowledge of Cloud Securi...
company_names	None
no_of_pages	7
total_experience	0.0

```
In [ ]:   #dict_df = pd.DataFrame({ key:pd.Series(value) for key, value in data.items() })
          #dict_df
          my_data = dict([ (k,pd.Series(v)) for k,v in data.items() ])
          my_data
```

<ipython-input-37-85111e0d5a54>:3: DeprecationWarning: The default dtype for em
pty Series will be 'object' instead of 'float64' in a future version. Specify a
dtype explicitly to silence this warning.
  my_data = dict([(k,pd.Series(v)) for k,v in data.items()])

Out[37]: {'name': 0   Ali Shan
          dtype: object, 'email': 0   aleeshan.786@gmail.com
          dtype: object, 'mobile_number': 0   331-2032763
          dtype: object, 'skills': 0   Website
          1   Advertising
          2   C
          3   Specifications
          4   Sdlc
          5   Mathematics
          6   Jose
          7   Recruitment
          8   Hotel
          9   Security
          10   Training
          11   Physics
          12   Chemistry
          13   System
          14   Public relations
          15   Reporting
          16   Plan
          17   English
          18   Database
          19   Teaching
          20   Facebook
          21   Big data
          22   Php
          23   Brand
          24   Android
          25   Audit
          26   Email
          27   Coding
          28   Access
          29   Compliance
          30   Writing
          31   Social media
          32   Saas
          33   Design
          34   Lifecycle
          35   Test case
          36   Engineering
          37   Metrics
          38   Testing
          39   Test cases
          40   Startup
          41   Queries
          42   Cloud
```

```
43            Analytics
dtype: object, 'college_name': Series([], dtype: float64), 'degree': 0    Bach
elors in Software Engineering
dtype: object, 'designation': 0                      E-CLINIC
1    Wireless Internet Manager
dtype: object, 'experience': 0    ✓ Have good domain knowledge of Cloud Secur
it...
1    ✓ Analyzing bugs and interacting with develop...
2                         Languages
3                  ✓ English and Urdu
dtype: object, 'company_names': Series([], dtype: float64), 'no_of_pages': 0
7
dtype: int64, 'total_experience': 0    0.0
dtype: float64}
```

In [ ]:
```python
import numpy as np
def f(x):
    values = x[~x.isnull()].values
    values = np.resize(values, len(x))
    return values
```

In [ ]:
```python
newdf = pd.DataFrame(my_data)
newdf = newdf.apply(f, axis=0)
newdf
```

Out[39]:

	name	email	mobile_number	skills	college_name	degree	
0	Ali Shan	aleeshan.786@gmail.com	331-2032763	Website	0.0	Bachelors in Software Engineering	
1	Ali Shan	aleeshan.786@gmail.com	331-2032763	Advertising	0.0	Bachelors in Software Engineering	
2	Ali Shan	aleeshan.786@gmail.com	331-2032763	C	0.0	Bachelors in Software Engineering	

In [ ]:
```python
from pathlib import Path
filepath = Path('SyedAliShan.csv')
filepath.parent.mkdir(parents=True, exist_ok=True)
newdf.to_csv(filepath)
```

In [ ]:
```python
newdf.to_csv(filepath,mode='w')
```