

Load Spacy Mode

```
import spacy
nlp = spacy.load("en_core_web...")
```

```
import json

import random
from spacy.util import minibatch, compounding
from spacy.training import Example
import pickle
from pathlib import Path
import warnings
warnings.filterwarnings('ignore')
import numpy as np


res_file = open("Entity Recognition in Resumes.json",'r',encoding='utf-8')
json_str = []
for line in res_file:
    json_str.append(line)

json.loads(json_str[1])

{'content': 'Afreem Jamadar\nActive member of IIIT Committee in Third year\n\nSangli,\nMaharashtra - Email me on Indeed: indeed.com/r/Afreem-Jamadar/8baf379b705e37c6\n\nI sh to use my knowledge, skills and conceptual understanding to create excellent team\nenvironments and work consistently achieving organization objectives believes in takin\ng initiative and work to excellence in my work.\n\nWORK EXPERIENCE\n\nActive member o f IIIT Committee in Third year\n\nCisco Networking - Kanpur, Uttar Pradesh\n\nOrganiz ed by Techkriti IIT Kanpur and Azure SkyNet.\n\nPERSONALITY TRAITS:\n\n• Quick learning a bility\n\nHard working\n\nEDUCATION\n\nBEng-DAC\n\nCDAC ACTS\n\n2017\n\nBachelor of Engg in Information Technology\n\nShivaji University Kolhapur - Kolhapur, Maharashtra\n\n2016\n\nNSKILLS\n\nDatabase (Less than 1 year), HTML (Less than 1 year), Linux. (Less th an 1 year), MICROSOFT ACCESS (Less than 1 year), MICROSOFT WINDOWS (Less than 1 year)\n\nADDITIONAL INFORMATION\n\nTECHNICAL SKILLS\n\n• Programming Languages: C, C++, Ja va, .net, php.\n\nWeb Designing: HTML, XML\n\nOperating Systems: Windows [..] Windows S erver 2003, Linux.\n\nDatabase: MS Access, MS SQL Server 2008, Oracle 10g, MySQL.\n\nNh tps://www.indeed.com/r/Afreem-Jamadar/8baf379b705e37c6?isid=rex-download&ikw=download -tps:co=IN',
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'extras': None}
```

Prepare Data For Spacy

```
# This function to remove overlapping entities
def filter_annotation(anlSt):
    ss_n = []
    prev_ij = []

    for i,j,s in anlSt:
        if prev_ij == []:
            prev_ij.append([i,j])
            ss_n.append((i,j,s))
        else:
            not_pre = True
            for ii in prev_ij:
                a = ii[0]
                b = ii[1]
                if ((i >= a and i <= b) or (j >= a and j <= b) or ((a >= i and a <= j) or
                    not_pre = False

            if [i,j] not in prev_ij and not_pre:
                prev_ij.append([i,j])
                ss_n.append(i,j,s)

    return ss_n
```

```
sk_set = []
lr = []
OL = []
labels = []
for json_entr in json_str:
    d = json.loads(json_entr)
    cont = " ".join(d['content']).split("\n")
    snt = " ".join(sd.txt.lower() for sd in nlp.tokenizer(cont) if not sd.is_punct)
    ets = []
    for ano in d['annotation']:
        len(ano['label']) != 0:
            lbl = " ".join(ano['label'][0].lower().split(" "))

            txt = " ".join(ano['points'][0][0]['text'].split('\n'))
            txt = [sd.txt for sd in nlp.tokenizer(" ".join(txt.split(""))) if not sd
            txt = [t.txt.lower() for t in nlp.tokenizer(ano['points'][0][0]['text']) if

    for ww in txt:
        s = cont.find(ww)
        e = s + len(ww)
        if s==1:
            OL.append([ww,lbl])
            if e-s >= 2:
                tpl = (s,e,lbl)
                ets.append(tpl)

ets = filter_annotat(ets)
ets = list(set(ets))
if len(ets) != 0:
    lr.append((cont,('entities':ets)))
```

```
n = len(lr)
test_per = 0.2
train_data = lr[:int(n*(1-test_per))]
test_data = lr[-int(n*(test_per):]
```

```
len(train_data),len(test_data)
```

```
test_data[5]
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(15, 22, 'designation')]]})

```

Prepare new NER Spacy Pipeline

```

test_nlp = spacy.blank('en')
ner = test_nlp.create_pipe('ner')
test_nlp.add_pipe('ner')

<spacy.pipeline.ner.EntityRecognizer at 0x1ce32143100>

for _,et in train_data:
    for sss in et['entities']:
        lbl = sss[-1]
        ner.add_label(lbl)

optimizer = test_nlp.begin_training()

p=0
batch_size = 10
for in range(400):
    losses = {}
    random.shuffle(train_data)

    for i in range(0,len(train_data),batch_size):
        batch = []
        for raw_text, entity_offsets in train_data[i:i+batch_size]:
            doc = test_nlp.make_doc(raw_text)
            example = Example.from_dict(doc, entity_offsets)
            batch.append(example)
        test_nlp.update(batch, sgd=optimizer, drop=0.2,
            losses=losses)
    p = p+1
    print('Losses', losses,p)

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Losses {'ner': 8071.230324698612} 8
Losses {'ner': 7713.988535086624} 9
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```

Test Accuracy

```
train_all_accuracy = []
for resume_data in train_data:
    content = resume_data[0]
    anot = resume_data[1]['entities']
    words = [content[an[0]:an[1]] for an in anot]
    nlp_content = test_nlp(content)

    found_ents = [e.text for e in nlp_content.ents]
    correct_found = [e for e in found_ents if e in words]
    eta = len(correct_found)/len(words)
    train_all_accuracy.append(eta)
acc = np.mean(train_all_accuracy)
print("Train Accuracy:",acc*100)
```

Train Accuracy: 97.52532454504941

```
dd = test_nlp(train_data[10][0])
summary.display.render(dd,style='ent')
```

kavya	name	u.	network	designation	ops	designation	associate	designation	accenture
companies_worked_at			bengaluru	location		karnataka	email me on indeed	indeed.com/r/kavya-u/0495775	

ramkrishan na
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experience python skills developer designation microsoft bengaluru karnataka june 2017 to november 2017 career summary 7.5 years it related employment as a software developer expert in python web development familiar with django flask web2py tensorflow jupyter notebook machine learning and artificial intelligence played key role in the team as solution provider for simplifying the existing system while working for clients saved cost and time per annum by automating administrative system wrote technical documents and user 's manuals technical summary languages skills python java skills angular js polymer 1.0 jquery library and tool tensorflow deep learning machine learning word2vec artificial intelligence pycharm jupyter notebook frameworks django web2py flask jpa google app engine platform google apps integration databases skills mongodb google big table(nosql database mysql 5.0 sqlite postgresql google cloud sql redis operating systems linux/ubuntu window applications google apps webex database zoho ms office google apps migration from lotus notes working with active directory syncing with the google apps elastic search spring mvc gantner product b1 b2 usa tilt 2025 education mongo dadabari ajmer rajasthan june 2015 to august 2016 bca degree affiliated college_name kota rajasthan https://www.indeed.com/r/ramkrishan-bhatt/da07dc6d058dfc64?isid=rex-download&ikw=download-top&co=in https://www.indeed.com/r/ramkrishan-bhatt/da07dc6d058dfc64?isid=rex-download&ikw=download-top&co=in

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