

assignment11

August 12, 2021

```
[2]: import numpy as np

def reweight_distribution(original_distribution, temperature=0.5):
    distribution = np.log(original_distribution) / temperature
    distribution = np.exp(distribution)
    return distribution / np.sum(distribution)
```

```
[3]: # import keras
# import numpy as np
# path = '/home/jovyan/dsc650/data/external/enron/davis-d/sent_items/1_'
# text = open(path).read().lower()
# print('Corpus length:', len(text))
```

```
[4]: import keras
import numpy as np

path = keras.utils.get_file(
    'nietzsche.txt',
    origin='https://s3.amazonaws.com/text-datasets/nietzsche.txt')
text = open(path).read().lower()
print('Corpus length:', len(text))
```

Downloading data from <https://s3.amazonaws.com/text-datasets/nietzsche.txt>
606208/600901 [=====] - 0s 1us/step
Corpus length: 600893

```
[5]: maxlen = 60
step = 3

sentences = []

next_chars = []

for i in range(0, len(text) - maxlen, step):
    sentences.append(text[i: i + maxlen])
    next_chars.append(text[i + maxlen])

print('Number of sequences:', len(sentences))
```

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chars = sorted(list(set(text)))
print('Unique characters:', len(chars))
char_indices = dict((char, chars.index(char)) for char in chars)

print('Vectorization...')
x = np.zeros((len(sentences), maxlen, len(chars)), dtype=np.bool)
y = np.zeros((len(sentences), len(chars)), dtype=np.bool)
for i, sentence in enumerate(sentences):
    for t, char in enumerate(sentence):
        x[i, t, char_indices[char]] = 1
        y[i, char_indices[next_chars[i]]] = 1

```

Number of sequences: 200278

Unique characters: 57

Vectorization...

```
[6]: from keras import layers
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model = keras.models.Sequential()
model.add(layers.LSTM(128, input_shape=(maxlen, len(chars))))
model.add(layers.Dense(len(chars), activation='softmax'))

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[7]: optimizer = keras.optimizers.RMSprop(lr=0.01)
model.compile(loss='categorical_crossentropy', optimizer=optimizer)
```

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[8]: def sample(preds, temperature=1.0):
    preds = np.asarray(preds).astype('float64')
    preds = np.log(preds) / temperature
    exp_preds = np.exp(preds)
    preds = exp_preds / np.sum(exp_preds)
    probas = np.random.multinomial(1, preds, 1)
    return np.argmax(probas)

```

```
[10]: import random
import sys

for epoch in range(1,20):
    print('epoch', epoch)
    model.fit(x, y, batch_size=128, epochs=1)
    start_index = random.randint(0, len(text) - maxlen - 1)
    generated_text = text[start_index: start_index + maxlen]
    print('--- Generating with seed: "' + generated_text + '"')
    for temperature in [0.2, 0.5, 1.0, 1.2]:
        print('----- temperature:', temperature)
        sys.stdout.write(generated_text)

```

```

for i in range(400):
    sampled = np.zeros((1, maxlen, len(chars)))
    for t, char in enumerate(generated_text):
        sampled[0, t, char_indices[char]] = 1.

    preds = model.predict(sampled, verbose=0)[0]
    next_index = sample(preds, temperature)
    next_char = chars[next_index]

    generated_text += next_char
    generated_text = generated_text[1:]

    sys.stdout.write(next_char)

```

```

epoch 1
1565/1565 [=====] - 199s 127ms/step - loss: 1.8230
--- Generating with seed: "s state of self contempt, of conscience pangs, of
despair in"
----- temperature: 0.2
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despair in the superviled the despress of the superfice and in the supernication
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 man: epoch 2
 1565/1565 [=====] - 186s 119ms/step - loss: 1.5899
 --- Generating with seed: "r kind of acts which in the general
 estimate of conduct are "
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 estimate of conduct are the servion of the same former and the most is the fach
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 1565/1565 [=====] - 195s 124ms/step - loss: 1.5110
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 been impossible.--with regard to the forment and the strength to the striggial
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 1565/1565 [=====] - 194s 124ms/step - loss: 1.4414
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 ----- temperature: 0.2
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1565/1565 [=====] - 194s 124ms/step - loss: 1.4208

--- Generating with seed: "ubstitute for a better argument. to this very day many well "

----- temperature: 0.2

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better argument. to this very day many well in the same and the spirits of the same the action of the constance, and personal and and spirits of the spirits" of the same and in the same and the same actions of the fact and constantly of the destruction which all the same all the strength and the same such and the stronger of the same and the same individuability of the same and all the words of the same the same all the same always the strong----- temperature: 0.5

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epoch 7

1565/1565 [=====] - 191s 122ms/step - loss: 1.4036

--- Generating with seed: "bad man but he stood for

something that was far above the hu"

----- temperature: 0.2

bad man but he stood for

something that was far above the human souls of the strong to the sense of the
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 1565/1565 [=====] - 194s 124ms/step - loss: 1.3893
 --- Generating with seed: " of the utilitarian or prejudicial
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 ----- temperature: 0.2
 of the utilitarian or prejudicial
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1565/1565 [=====] - 187s 120ms/step - loss: 1.3792
--- Generating with seed: "
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----- temperature: 0.2

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sense of the strength of the truth of the subtle of the strength to the stronger
and the stronger and in the stronger and such a philosophy of the s-----
temperature: 0.5

stronger and in the stronger and such a philosophy of the stribpart of the the
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present the conscience of the subtluness some
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their proves of the souls of his profound and methow--and the worthy of the
spirit and superitically----- temperature: 1.0
nd and methow--and the worthy of the spirit and superitically, aare man
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1565/1565 [=====] - 190s 122ms/step - loss: 1.3697
--- Generating with seed: "ies.

273. a man who strives after great things, looks upon "
----- temperature: 0.2
ies.

273. a man who strives after great things, looks upon its one must be all and
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sense of the such a personality and the more interpretations of-----
temperature: 0.5

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it has always the soul the sentiments hi----- temperature: 1.0
at sense and before it has always the soul the sentiments his had spremst not in
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1565/1565 [=====] - 188s 120ms/step - loss: 1.3613
--- Generating with seed: " successively made responsible for his [particular]
acts,
th"
----- temperature: 0.2
successively made responsible for his [particular] acts,
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the sense of the spirit, and and and the soul is the sensument and speak of the
consider of the same spirit, and the more and in the same special and
spirituality of the sense of the sensument. the present interpretations of the
present interpre----- temperature: 0.5
nsument. the present interpretations of the present interpretation of the most
man" in the day to such as a strength one manifess who does not danger and faith
and there are in the general and additil words and has independent and the most
fact
that it is indifficest its sprete--as to himself and to the fact the same
morality, and and also has not not and the general successions that in the word
of the spiritual fundamental means which
he use that it is m----- temperature: 1.0
of the spiritual fundamental means which
he use that it is makes which vin quiling one its unvioliativall--with human.
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1.2
made out of here at a silewhimal estemlity, our fine which a powerfor: only
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rest and and rodund eougheepoch 12
1565/1565 [=====] - 186s 119ms/step - loss: 1.3542

--- Generating with seed: "ns of god to do with morals!"

165. in sight of every party."

----- temperature: 0.2

ns of god to do with morals!"

165. in sight of every party. the contrary of the present and the conscious of the same the experience of the present in the proper for the spirit of the present and the experience of the same the present the contrary and the sense of the proper for the fact that the most farther, and the experience of the contrary of the same the contrary and the consequence of the contrary to the present all the present and the problem of t----- temperature: 0.5

contrary to the present all the present and the problem of the sense. the profoundly a be readily that it is also will to the proper for the experience that the soul are strive to the same the probable other will to the entire artist. the same and artist of the convinital morality, and the conscious the born to the belief of the german

consequence of the case of the contrary and that it is a person with the considered the world of this contrary of a here, ----- temperature: 1.0
n with the considered the world of this contrary of a here, to be person some more courses

before ghistrochally eaeh and foreweall which really sufficient religious sylllented as those gro on science down, this he it talle seek of scunce, and the phenomenied to the most

morality, and perkenche who would wenon percemy to the victory of the ordinary a repuget to "the partion" after the sense. but who access to do that nightuous rexpersed on classily other to ----- temperature: 1.2

access to do that nightuous

rexpersed on classily other to lipty and rarele. unflide of the art
or more

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itmi" of thing bams, upon so world to
badafera-ye worldly dose

will minging, excess philosophical is a motives vigorigy to heaft the truth: the er fauritible such opinserm wisdoepoch 13

1565/1565 [=====] - 191s 122ms/step - loss: 1.3482

--- Generating with seed: "f

me... indeed, if it were allowed, i should have to give hi"

----- temperature: 0.2

f

me... indeed, if it were allowed, i should have to give himself and the contrary to the sensition of the sensition of the end and the sense of the sensition of the problem of the contrary of the same any sensifient in the same the conscience of the sensition, and conscience the more and contrary the contempt

and interestive the entire and sense of the sense of the sensation of the
sensation of the sense of the sensation of the conscience of the same the -----
temperature: 0.5

he sense of the sensation of the conscience of the same the child the artists of
any cause in the sensation, and the most power and instincts, and distrust
contradiction the greeks and the development is interest and the contrary in
religion, something for a potent short, as the same world soul is sensible:
sense and interestively deceive the reason, and constraint that among the
conscious of the interesting and can distrust in the same sensible and the
di----- temperature: 1.0

interesting and can distrust in the same sensible and the discial piebeed.
imawmes of devont litc, and

deal finally, and of such a grouble inscible,--man a itself doubtable mediocre
the which is a monble and who distinguished gernalge of its now aquestions who
dose hipsments obliged the sendeced are creations that other of the gloom of
muscible, in one's state to the ages." in

finally wild one rehode, all the personant god loughs, by ; this just trympw
es----- temperature: 1.2

hode, all the personant god loughs, by ; this just trympw esscon. temperable
asceed wind borrios whie the disclucage alstic and
mode,

the manlikings that the must
be grodvates co

fequesting, an intime-deturecy over

endured whing our vyghtart end to living with the convenering: morals patt we-
perrect; only singation wi. you.

in

nood of yearontfest present, marif, in us, and a, eopless micrwiliticcy, unserst
phyng, theory eurultpohe

ranver bepo. th say schepoch 14

1565/1565 [=====] - 197s 126ms/step - loss: 1.3419

--- Generating with seed: "ament, turned alternately

to and from the south, in which fr"

----- temperature: 0.2

ament, turned alternately

to and from the south, in which from the considered the respect of the same such
a states of the states and different and man as the same with the superficially
and the proves and the man in the same proves the same and the proves the states
of the same desires of the contemporation, and all the strength of the same
society, and the fact it is the sees and desire of the self-contemporation of
the more and the present man, as the f----- temperature: 0.5

elf-contemporation of the more and the present man, as the fact its saint to the
such a delicate who has be do the determined the greater from the self-

certainly, and the extravagance of conscience of the course, and it is a such a
double of the facts, and the profound the placo in a thing in the fact in the
self-schow, and his the summing of such a words, and hitherto deepers of the
german destiny and in the stingerance. the german enthurical religious wo-----

temperature: 1.0

y and in the stingerance. the german enthurical religious worthinay with
gristing pureses witlisful call".

e=versinm tyan from smhuconity school. but it has no
rightly hand--is inplaced this feel and
one is opposious, reverenceswites a false hand these
sphens

womln suspects

of emotions and in look over-deuplies, passionate and but they instancly, and
with the individually. under the allow, a every doman a germans; and feeling up
from an errorrk from a pres----- temperature: 1.2

y doman a germans; and feeling up from an errorrk from a presedneasf kinds," it
ventuice; their pa-example, as man, were wretce)utule of matter's
pequerately

haft historage

of high gethon visity, ennaveryfusieccece, interestion.ce i feels imlit able the
imagx, extent all promise thorable just only deceives wither disoniby, a ranks
the world

frou. by heaition action a thing is permated deca

absove couvemer is. takes the "times" has

pictucey to a pessimativeleepoch 15

1565/1565 [=====] - 192s 122ms/step - loss: 1.3357

--- Generating with seed: "erful emotion, the great, the powerful, the
immense, and if "

----- temperature: 0.2

erful emotion, the great, the powerful, the

immense, and if they are the present in the sense of the states of the

conscience of the spirit of the servilent in the strength and suffering of the

spirit of the sense of the states of the service of the sense of the states of

the states of the sense of the strength of the who all the fact and something

there are here and the present interpretring the most discloses of the states of

the the desires of the spiri----- temperature: 0.5

most discloses of the states of the the desires of the spirit of all the world

which is always the intercoust and soul is also a philosophers that is also all

the sense of the

present--and there is from the farbtually that a german and as "the destineness,"

and the express of the christian is it can develoted and still deception, and

there is the closely, and all the fact that it is present at they are there

metaphysical sense of the strength of

all the wor----- temperature: 1.0

are there metaphysical sense of the strength of

all the world back--long of comprehelecs.

=the consistation of experient: and former for the obstures. why e alted,
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it is too nothing, place of
kextraines; the actual, these opposing description, waited spracking mentally
things, we shork they
are dubsives what seem to commence that "ciolacly and time. good the arrivings
with t----- temperature: 1.2
commence that "ciolacly and time. good the arrivings with that method demiss a
id,odutedtyings. butuent presetkty, in mank from this shaventary and
north,verkncebe, a misunderstand of author" by the draws for his himplines.

=cwhole, account and poman, is fettet malerplations, learned kind that yes man
in inspirise far and
dispersional something being
south grow
of their time,

so, to conciautionly to estembous what wovenh--vimises "break
presciunial."epoch 16

1565/1565 [=====] - 194s 124ms/step - loss: 1.3302
--- Generating with seed: " effect of the appearance of napoleon was the last
great pro"

----- temperature: 0.2

effect of the appearance of napoleon was the last great proper and specialive
the strength in the same and desires of the spirit of the strength of the spirit
of the conscience, and and so the great strength and sense of the same the
proper of the proper spirit and substring the same and the power of the
sensation of the conscience, and standard and before the conscience of the fact
and sunsered and conscience of the fact of the strength with the sensitio-----
temperature: 0.5

and conscience of the fact of the strength with the sensation and believe my
opposite and

individuality the highest science of comparises, in the same to actions of
customs of the for the fact to conscience, the instinct the souls of the
feeling. and sunserously seems and devolty in the conscience, however, and the
entire to be looked to be a distinguished in short, and loftsens the remains in
the great the discrection to the commence and conscience of the -----

temperature: 1.0

great the discrection to the commence and conscience of the thir against myself
of in enemy suffer themselvesly, more xipress) that as they says with a
literations, as fearuness with a music becomes before

on then a personal, for pars lided for the

brotk). but one turn himself at the other handowean with, such travile and
forefahing, daring in all enterable purwed

had to deceration of it of german spirit as "man who liverge, an intereak to
rele, as the ide----- temperature: 1.2

spirit as "man who liverge, an intereak to

rele, as the idees--places obl:-fone--the toocheral highthand,

and proper lower and sexirecal origins tradming standard, homobjeniss noble,

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 have an
 each short, which
 us, heavy, mysterious "treat foreboepoch 17
 1565/1565 [=====] - 197s 126ms/step - loss: 1.3250
 --- Generating with seed: "t spirituality which runs
 at presto pace, and a dialectic ri"
 ----- temperature: 0.2
 t spirituality which runs
 at presto pace, and a dialectic right to the sense of the same the strength and
 commands of the strength of the spiritual to the precisely and all the same the
 states of the same the soul of the strength and in the sense of the same the man
 of the strength and always of the sense of the spiritual and all the most
 spiritual or more sense of the senses of the spiritual seried to the spiritually
 and a man with the same the same the s----- temperature: 0.5
 ed to the spiritually and a man with the same the same the superhipries which he
 gained the earth--as the seems to have he can so that every destreciation of the
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 the every man in the species of the social art and in the sense of the prevoid,
 to man an instinct of the spiritually after an opinion of the the primate the
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 1.0
 same of the same the thing of his devists of the strives of reaups do, them
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 <ipython-input-8-66c6eecb696d>:3: RuntimeWarning: divide by zero encountered in
 log
 preds = np.log(preds) / temperature

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 temperature: 1.2
 a squenday humment and must are for the spends of fundamentally reallessely
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therefore
simplifif,epoch 18
1565/1565 [=====] - 188s 120ms/step - loss: 1.3187
--- Generating with seed: " as the
house of a god, rears itself vastly into the vague a"
----- temperature: 0.2
as the
house of a god, rears itself vastly into the vague and all the present
interpretation of the strength of the sense of the strong states are the man and
the destrutions of the sense of the sense of the states and intensed one of the
seriousness of the states and being and discorders and standard and the
standard, the sense of the state of the sense of the state of the standard and
the surpared the soul and the sense of the states and the promises, a-----
temperature: 0.5
red the soul and the sense of the states and the promises, and the age of the
spirit which the weaker and conscience, the mediousters of every intensed, there
is a self-sorturic "moralistic constrainity," or formerly can be theoracher
conversally suffering speaks the animal the contradiction and by the standard,
and are also to the our hasted in the conscience, as a distinguishe of the
strength of a neverthelley of a "man"--thing that all the individual ser-----
temperature: 1.0
a neverthelley of a "man"--thing that all the individual seriousness of
valuations and self-further bad "talesoxe"--as a wagneinfs, undernorbed with
such as dest boohs, this standandses present unationality immoral wasint and
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preciments home; no a organ dreamful utiones what so would knows, and for first
of the usage.

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1.2
ve longlie some his hgicumater who casel?
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sthowness evilse
allish:--master an one for case and interraituse." even good of exped the most
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beon soved ougby inacliifty akin nours and puristilis-possisigly
toive.ny in kanceier. moreover, or epoch 19

1565/1565 [=====] - 188s 120ms/step - loss: 1.3172
 --- Generating with seed: "who is it really that puts questions to us here? what really"
 ----- temperature: 0.2
 who is it really that puts questions to us here? what really the same the self
 the self former and and self from the former the same the same and does the
 sense of the same the and stringes of the processes. the sense of the sense of
 the self such a soul of the sense of the same such a soul of the sense of the
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 sort of the same an act of the sense of the condition, and the former-----
 temperature: 0.5
 he same an act of the sense of the condition, and the former such a seried and
 long in life and sin of all a same an infaculic from the very inclinations of
 the world and friends, is a soul of the one has himself and nothing to the
 stribution of the "one man"--in this provious the world of service of an
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 se----- temperature: 1.0
 ditions which is a self self the morals. the false of the selfer
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 st surrecial valuations nher taking mich-no formerle person to scond
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