

assignment11

November 12, 2021

1 Data preparation

```
[14]: 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))
```

Corpus length: 600893

2 Vectorizing sequences of characters

```
[15]: # Extracts the sequences of 60 charecters
maxlen = 60
# Sample new sequence based on number of steps
step = 3
# Holds our extracted sequences
sentences = []
# This holds the targets (the follow-up characters)
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))

# List of unique characters in the corpus
chars = sorted(list(set(text)))
print('Unique characters:', len(chars))

# Dictionary mapping unique characters to their index in `chars`
char_indices = dict((char, chars.index(char)) for char in chars)
# Next, one-hot encode the characters into binary arrays.
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...

3 Building the network

```

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

```

4 Model Compilation

```

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

```

5 Function to sample the next character given the model's predictions

```

[18]: 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)

```

6 Text-generation loop

```

[19]: import random
import sys
# trains the model for 20 epochs
for epoch in range(1, 20):
    print('epoch', epoch)
    # Fit the model for 1 epoch on the available training data
    model.fit(x, y,
              batch_size=128,
              epochs=1)

```

```

# Select a text seed at random
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)
# Generates 400 characters starting from seed text in loop
    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)
        sys.stdout.flush()
print()

```

```

epoch 1
1565/1565 [=====] - 196s 125ms/step - loss: 2.2704
--- Generating with seed: "essed of
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----- temperature: 0.2
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 epoch 2
 1565/1565 [=====] - 195s 124ms/step - loss: 1.6158
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epoch 4

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epoch 5

1565/1565 [=====] - 195s 124ms/step - loss: 1.4474

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 epoch 7
 1565/1565 [=====] - 196s 125ms/step - loss: 1.4087
 --- Generating with seed: "re is but one thing
 that it does not want: measure, standard"

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that it does not want: measure, standard to the states of the states in the
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----- temperature: 0.5
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epoch 8
1565/1565 [=====] - 195s 125ms/step - loss: 1.3940
--- Generating with seed: "et how literally

they are merely--my truths.

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----- temperature: 0.2

et how literally

they are merely--my truths.

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----- temperature: 0.5

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----- temperature: 1.0

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epoch 9

1565/1565 [=====] - 195s 125ms/step - loss: 1.3829

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 ----- temperature: 1.2
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 epoch 10
 1565/1565 [=====] - 195s 125ms/step - loss: 1.3722
 --- Generating with seed: "ch eternal love (provided no element
 of self deception be in"
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 of self deception be in the single only the sensible and desire the superiorics
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epoch 11

1565/1565 [=====] - 195s 125ms/step - loss: 1.3640

--- Generating with seed: "crease in the threatening attitude of
russia, that europe wo"

----- temperature: 0.2

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russia, that europe work of the same to the contempt of the sense of the
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----- temperature: 0.5
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----- temperature: 1.0
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----- temperature: 1.2
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epoch 12
1565/1565 [=====] - 196s 125ms/step - loss: 1.3584
--- Generating with seed: "unced out of
the question. it is because we have for thousan"
----- temperature: 0.2
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the question. it is because we have for thousands and the present interpretation
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is the same as the same true of the same thing the germany and self-cause the
sense of the present which the same as the same thing and strength of the same
to the sense of the same to the consequently the
----- temperature: 0.5

of the same to the sense of the same to the consequently the sense of the
greatness of the same interpretable and feeling of the humanity of the opposed
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properly in the concerning which has been
live one perhaps, what are fear of the philosophical the distinction of the
highest of the same simplicical the thing and as the disupeed the same as the
same to superiorive and seems to
----- temperature: 1.0
e disupeed the same as the same to superiorive and seems to whom the same trajed
musts, the profound
thrie many passions--a
favoury
so all choool, good maralle misundensive of the fine spirit is sanctide.

123

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being: whatever we not-way delusive, and
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providenessing those s forces cand one's expression-long as genium. "vidicts, as
has, where vost also up cause that it was ethics and pain; there immullessness to
----- temperature: 1.2
up cause that it was ethics and pain; there immullessness to the world
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16

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unskerity of certain
anyinsarid

epoch 13

1565/1565 [=====] - 195s 125ms/step - loss: 1.3510

--- Generating with seed: "ocratic society and so it will always be--a society
believin"

----- temperature: 0.2

ocratic society and so it will always be--a society believing the fact of the
same to the stronger and the strong of the world of the proforth, and the moral
profound the profound the subtle to the strength of the profound the stronger of

the reason to the proforth, the strength of the sense of the world of the sense of the moral and the strength of the sense of the moral and the proforth to the world of the strength of the same to the moral faculty to be

----- temperature: 0.5

orld of the strength of the same to the moral faculty to be any the world far to say, the fact of the conception of the wait. the time one is even the pleasing his all self-sight of distinguish to the word of the there is a world for the profound supirmposed: the power and soul are the same to the world of menting and self-desire of the purplication of the distrust of the exist and far a sexual the state of the rule of the power, the same there in the ratt

----- temperature: 1.0

e state of the rule of the power, the same there in the rattere of civilizative ourselves, and

"the opposed. in the once recognized man"

it heciles of sympathy. at he saidd it wornds whatever indiffer,neupp, the world has carled by them: with it sesisful of which were heart wishes us aln antagour, thereby one propliting--ceased to be whether one kind of fact what want deed that it is where entined the fewncie of any dangerous

: though to them all

----- temperature: 1.2

e entined the fewncie of any dangerous

: though to them all inticiably, called in order to do fact till

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mothkslere...pon: hepwachin, alwagner. as feels "ever who sle weakness"

collecofile purpose

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knowing so lat soer the strength physiioned sought evil..

no came confide is all may happen sear the f lece on wercu
epoch 14

1565/1565 [=====] - 196s 125ms/step - loss: 1.3459

--- Generating with seed: "nearly so monstrous as they seem.

the hereditary consciousne"

----- temperature: 0.2

nearly so monstrous as they seem.

the hereditary consciousness of the strength that is the constraint the stronger the problem to his own the stronger the great the strength of the most problem the contempt of the same to be the stronger the more fact the stronger and the stronger thereby the problem the stronger the struggle and souls the more stronger the most constantly and the stronger the stronger the fact of the sense of the problem to stating of the

----- temperature: 0.5

onger the fact of the sense of the problem to stating of the power and spirit is can ever the statism in doing of the virtue of instance should the value of these most fact which an accoundering and for the slave, and is the same one for the dirreligy and in the spirit as the experience of the principle and that the

death of the destruction of his so delight of the problem the whole syet in his
soul, the tradition of the philosophers, the praise and free s

----- temperature: 1.0

ul, the tradition of the philosophers, the praise and free soldering sympathy is
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goods of german

cros in the goods connepsation the concealedn as i asofactely hurey would be
which everything of the way

to our sacrifice in his lack of his feeling of an us t

----- temperature: 1.2

e way

to our sacrifice in his lack of his feeling of an us themselves when he me
others:and also the utastfulable, it, that in a human of
christian historidowny, comlession,

met are--and the persens ach less this consequently will , who sundleation).
still"--to ray aldoway, at , always them threaker obbitious all persduceities:
the ignificanted

an measure and history, masommowevt they were will the god now forkenessd,
as a conged art onward

taking "powor i

epoch 15

1565/1565 [=====] - 196s 125ms/step - loss: 1.3397

--- Generating with seed: "" la rochefoucauld and

those other french masters of soul-se"

----- temperature: 0.2

" la rochefoucauld and

those other french masters of soul-sense of the way the presentimate and the
powerful and the powerful the sentiment of the world of the entire and the sense
of the presentian of the father of the presentimate of the same the moral
probabilities and the present the problem of the presentimate thereby the being
and the problems of the spirit of the powerful the presentimate and the sense of
the spirit of the common only the world and th

----- temperature: 0.5

the sense of the spirit of the common only the world and the hardrated as
therefor as a strength for the superiorical interpretation of the mothers, the
occasion them that is the will to the must and the men the german dependers of
the spirit to the word are or general experience of the common in the comparis
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----- temperature: 1.0

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bad consentary of the fatherism of sentiment generation is the person
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emotion of well man is against them
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----- temperature: 1.2
eculiar art (the hunore, and see of hunises, when been probably to ashrythine
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spirit, for them
order, nothing germain hou considerates at eas ever light toqvew"--"it
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comploy civilizations with aadcmepeporation of powerjy and the worldable of
trutuw; whichpe senfed "mu
epoch 16
1565/1565 [=====] - 196s 125ms/step - loss: 1.3335
--- Generating with seed: "t portentous nature are developing in the domain of
psycholo"
----- temperature: 0.2
t portentous nature are developing in the domain of psychological distingulated
the world of the general the truth of the commands and delight of the sense of
the truth of the truth of the body of the same and such an about the and the
worth and not a states the best of the sense of the conceptions of the world of
the same to be and will and the subject and the sense of the sense of the
tendence of the commands of the same the most deceived the point of th
----- temperature: 0.5
f the commands of the same the most deceived the point of the fast of the order
of the father of the command-proves the other many and part of the reason the
reason the feeling to sense and the law of the promises of the elevation of the
morality of the man is a world of the signary of all the will how to say, it is
its own respect the existence. the sense of any one see soul of the
comparison to lightene of the manifest of the same complete in the harm, w
----- temperature: 1.0
lightene of the manifest of the same complete in the harm, what
is intentive. geniuss--for other sure- and both" it was the most penity as a
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retarding this truthmverly reftenedde of human finely disactigy cain a
dishenterity of being ateroug and he and scronnion with sermencic which the
----- temperature: 1.2
being ateroug and he and scronnion with sermencic which the the interbatt
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except thos still if you empp"--intestal commot atteptited muss
epoch 17
1565/1565 [=====] - 196s 125ms/step - loss: 1.3293
--- Generating with seed: "ve the
ascendancy, nay, literally the supremacy, over europe"
----- temperature: 0.2
ve the
ascendancy, nay, literally the supremacy, over europes of the sense of the sense
of the philosophers that the strength to the sense of the sense of the gregarism
of the good and soul and the word and the present something which a metaphysical
of the one and the ancient and love of the acts of the subtle, and the present
the strength of the subtle, the whole self-resting and philosophy to the means
of the world of the sense of the soul. the philosoph
----- temperature: 0.5
e means of the world of the sense of the soul. the philosophy and collectory,
and the philosophers and from the man of the master at the general good and also
insignation. the person, and the sense of its have in
the being that the belowing moral instincts, and the heart the means of the
fart, as a state of the responsible to the hardness.

12
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and responsible of the philosopher which can be to experience, and the worl
----- temperature: 1.0
of the philosopher which can be to experience, and the worlths of his ahamist at
once musss
are pietjo," and who suver man, there is not ever volo"usness of
a squegration of forms of lack," but man. everygcest, morals from itself.
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means of patts of counter might. vitial advance perulis outsy, there even seems
and thought of a german
gre
----- temperature: 1.2
perulis outsy, there even seems and thought of a german
gregaring, less extent within na
believer, lises. nod, among burding, botness to suberty that will no
bestoumaters and divine", designation, should vidannt; should
himself, that at odor,
should ceutanle sela, so is never time casp and
deriviltivisms of man-soul if no"d.

44

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frimom; and

necessadity, abjun where an e

epoch 18

1565/1565 [=====] - 196s 125ms/step - loss: 1.3260

--- Generating with seed: "even of a martyr. although the cowardly
creature always inwa"

----- temperature: 0.2

even of a martyr. although the cowardly

creature always inward and an antidous and something in the most best of the
same as a problem of the power of the same to many and something being and there
is a sort of the spirits of the same to the spirit of the same in the same to be
an assument of the masters of the conceal the masters of the same to the spirit
and conscience of the most sure is best of the spirits of the spirit and
conscience of the spirit and

----- temperature: 0.5

f the spirits of the spirit and conscience of the spirit and distinction to a
smile for them and lives of a dangerous value of the fact that is at the unity
and the really means of the spirit to the same society of
the same thereby the present man in the conceal the power, and as in the
spirits, the spirit. only the estimate of men of a problem of every distrust.
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primaby with

----- temperature: 1.0

sition of the symport, should the world as the primaby with a wort, should be
some by the unvently). he hast wars would than its another, it
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of a degar-grematment whous best attere the
danger.

to great society. whoever

more equality are out of the hasty less it is brins false and the morality, it
be short to better.

149

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a worgh fre": of thoughtdly

----- temperature: 1.2

to better.

149

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=they wists of
a worgh fre": of thoughtdly, and a spouls (spirito,
e

<ipython-input-18-66c6eecb696d>:3: RuntimeWarning: divide by zero encountered in
log
  preds = np.log(preds) / temperature

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been u
epoch 19
1565/1565 [=====] - 196s 125ms/step - loss: 1.3208
--- Generating with seed: "piritual men" of christianity have done for europe
hitherto!"
----- temperature: 0.2
piritual men" of christianity have done for europe
hitherto! it is the fact and the strengthens of the same thing in the same thing
and man is not the present in the success of the superiorical problems of the
successful and artistic of the superiorical sense and interests of the sense of
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an enduring the such an explanation of the sense of the sense of the most
problems of the g
----- temperature: 0.5
tion of the sense of the sense of the most problems of the germany solitude and
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people, has hitherto henhe mode, which make one must, a far a modern
mifely, or if esvient eager that it
----- temperature: 1.2
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