

Assignment 11

DSC650

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```
In [1]: import os
import json
from pathlib import Path
import zipfile
import email
from email.policy import default
from email.parser import Parser
from datetime import timezone
from collections import namedtuple

import pandas as pd
import s3fs
from bs4 import BeautifulSoup
from dateutil.parser import parse
from chardet.universaldetector import UniversalDetector

import keras
from keras import layers
import numpy as np
from string import punctuation
import re
import random
import sys
import os
```

Using TensorFlow backend.

Preparing Dataset

```
In [2]: df = pd.read_csv("productlist.csv")
df.head(5)
```

Out[2]:

	Unnamed: 0	product_ID	product_name	product_brand	price	product_description	product
0	0	6562638659653	VITALIFT-A	Dr. Different	\$42	This night-time skin treatment is ideal for th...	Other Treatr
1	1	6562639675461	VITALIFT-A Forte	Dr. Different	\$52	Those that need an extra boost to smooth out f...	Other Treatr
2	2	6562640429125	VITALIFT-A Eye & Neck	Dr. Different	\$40	For those looking to target fine lines and wri...	Trea
3	3	6592233799749	Great Barrier Relief	KraveBeauty	\$28	This creamy serum fights off environmental agg...	Other Treatr
4	4	6535227277381	Oasis Soothing Mask	DR ALTHEA	\$18	This calming mask delivers intensive moisture ...	

```
In [3]: product_description = [i for i in df['product_description']]
```

```
In [4]: product_description[0]
```

Out[4]: 'This night-time skin treatment is ideal for those looking to improve the appearance of aging skin. The main ingredient: Retinal brings similar results of smoothing fine lines and wrinkles as retinol through stimulating collagen production, but has been proven to work faster than its counterpart. In addition, retinal is more efficient at exfoliating, contributing to brighter skin and more even tone. Other ingredients: Hyaluronic acid is a favorite for plumping and hydrating, which helps skin appear smoother and more radiant. Safflower oil is an anti-inflammatory ingredient that helps calm irritation and protect skin from damage. The result is more youthful, supple skin. pH of 6.50-8.50. Formulated without artificial fragrances and colors, parabens, sulfates, animal products, mineral oil, essential oil, alcohol, and silicone. 0.7 oz./ 20g'

```
In [5]: text = "\n\n".join(i for i in product_description)

print(text[0])
print(f'Corpus Length: {len(text)}')
```

T
Corpus Length: 188992

```
In [6]: maxlen = 60
step = 3
sentences = []
next_chars = []
```

```
In [7]: 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))

        chars = sorted(list(set(text)))
        print('Unique characters:', len(chars))

        char_indices = dict((char, chars.index(char)) for char in chars)

        print(chars)

Number of sequences: 62978
Unique characters: 96
['\n', ' ', '!', '"', '%', '&', "'", '(', ')', '*', '+', ',', '-', '.', '/',
'0', '1', '2', '3', '4', '5', '6', '7', '8', '9', ':', ';', '?', 'A', 'B',
'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'R',
'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z', '[', ']', '_', 'a', 'b', 'c', 'd',
'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's',
't', 'u', 'v', 'w', 'x', 'y', 'z', '~', '\xa0', '®', '±', '!', '-', '—', '‘',
'’', '“', '”', '…', '™', 'e']
```

```
In [8]: 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
```

Vectorization...

Building Single Layer LSTM model for next character prediction

```
In [9]: model = keras.models.Sequential()
        model.add(layers.LSTM(128, input_shape=(maxlen, len(chars))))
        model.add(layers.Dense(len(chars), activation='softmax'))

        # model compilation configuration
        optimizer = keras.optimizers.RMSprop(learning_rate=0.01)
        model.compile(loss='categorical_crossentropy', optimizer=optimizer)
```

```
In [10]: # function to sample the next character for the model's predictions
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)
```

```
In [11]: current_dir = Path(os.getcwd()).absolute()  
         results_dir = current_dir.joinpath('results')
```

```

In [12]: # text generation loop
for epoch in range(1, 20):
    print('\nEpoch', 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 + '"')
    data_path = results_dir.joinpath(f'Generated_Text_Epoch_{epoch}.txt')
    with open(data_path, 'a+') as writer:
        writer.write(f'GENERATED TEXT FOR EPOCH {epoch}')

    for temperature in [0.2, 0.5, 1.0, 1.2]:
        print('\n-----_Temperature:', temperature)

        with open(data_path, 'a+') as writer:
            writer.write('\n-----\nTEMPERATURE: ' + str(temperature) + '\n')
            writer.write((generated_text).upper() + '\n\n')

            sys.stdout.write(generated_text.upper())

            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.

                # samples the next character
                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)
                writer.write(next_char)

            print(generated_text)

model.save('Text_Generator.h5')

```

Epoch 1

Epoch 1/1

62978/62978 [=====] - 73s 1ms/step - loss: 2.3116

--- Generating with seed: "arabens, sulfates, artificial colors, animal products, alcohol"

-----_Temperature: 0.2

ARABENS, SULFATES, ARTIFICIAL COLORS, ANIMAL PRODUCTS, ALCOHOL, mineral oils, andificial fragrances, parabbens, and and cilicone. This product is free and inficial frograntes and colors, andicilicilal croorss and colors, anding products, and and coloring parabens, and andificial fragrances, and andinicilicil l and colors, anding products, and andicilicinal products, alcohol, and colors, and infucial products, alcohol, mineral oils, and andificial fragrancesl p roducts, alcohol, mineral oils, and andificial fragrances

-----_Temperature: 0.5

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Epoch 2

Epoch 1/1

62978/62978 [=====] - 70s 1ms/step - loss: 1.5291

--- Generating with seed: "sy, everyday hydration. Oats help to soothe irrita tion and r"

-----_Temperature: 0.2

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-----_Temperature: 0.5

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Epoch 3

Epoch 1/1

62978/62978 [=====] - 89s 1ms/step - loss: 1.3096

--- Generating with seed: "eep unwanted bacteria out. Plus, it layers perfect ly under S"

-----_Temperature: 0.2

EEP UNWANTED BACTERIA OUT. PLUS, IT LAYERS PERFECTLY UNDER Serum Cleanser and while the skin and herbe sensitive skin with the skin and while calming orthe r sensitive skin and sendition and herbal is free of artificial fragrance, pa rabens, sulpates, artificial fragrance, animal products, alcohol, mineral oil s, essential oils, essential oils, essential oils, essential oils, essential oils, essential oils, essential oils, essential oils, essential oils, essel o ils, essential oils, essential oils, essential oils, esse

-----_Temperature: 0.5

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-----_Temperature: 1.0

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-----_Temperature: 1.2

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llationstAa whelmovd line, essendes spet Winn

Epoch 4

Epoch 1/1

62978/62978 [=====] - 106s 2ms/step - loss: 1.1960
--- Generating with seed: "icone, and has a pH level of 7.3~8.3.5.27 Fl Oz /
150ml

Thi"

-----_Temperature: 0.2

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-----_Temperature: 0.5

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er greem gently fetes breat thP soft af effectinglding ec

Epoch 5

Epoch 1/1

62978/62978 [=====] - 106s 2ms/step - loss: 1.1214

--- Generating with seed: "d-spectrum sunscreen that doesn't feel sticky or l
eave a whi"

-----_Temperature: 0.2

D-SPECTRUM SUNSCREEN THAT DOESN'T FEEL STICKY OR LEAVE A WHICH and brightenin
g the anti-aging and smooth skin and smooth skin. The formula ingredients and
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-----_Temperature: 0.5

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sents and refreshing and it and color and brightening skin. Kore skin. The sh
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-----_Temperature: 1.0

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-----_Temperature: 1.2

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ith the nourish6 uses will, sinnteve antongans nothering,

Epoch 6

Epoch 1/1

62978/62978 [=====] - 109s 2ms/step - loss: 1.0691

--- Generating with seed: "uct is Over-The-Counter (OTC) registered.1.35 fl oz
z / 40 ml "

-----_Temperature: 0.2

UCT IS OVER-THE-COUNTER (OTC) REGISTERED.1.35 FL OZ / 40 ML / 5.76 fl. oz. /
150 ml

This product is the formula includes the skin texture and skin types and supple skin types and supple skin cells and sensitive skin types and and soothes and protective and soothes and supple skin cells and sensitive skin types and strengthening benefits, complexion. The the skin toner in the formula includes productive for a smooth skin with the form the skin to ceramide utive for a smooth skin with the form the skin to ceramide

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-----_Temperature: 0.5
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ACTIVE FOR A SMOOTH SKIN WITH THE FORM THE SKIN TO CERAMIDE in the in the combination and creasy for a soothes and dead cleanses like a ble for a combination with the facione the skin toner in liky and resiots and the outline to her p and and fermerty level to streagh extract, the product is formulated without artificial colors, artificial colors, animal products, artificial colors, animal products, artificial colors, animal products, artificial colors, animal products, artificial colors, animal products, artificial colors, animal

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-----_Temperature: 1.0
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ARTIFICIAL COLORS, ANIMAL PRODUCTS, ARTIFICIAL COLORS, ANIMAL products, also
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copore. Bais is not hydrated from hast skin toney and complexion. The Moistur
e, dry skin cho's that strees. This product pouts formula leffres for use, is
vegeasly be the residue use water fine lines and salper fines more pappies a
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th this product, comm skin team Cine a vitamin C parizes i

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-----_Temperature: 1.2
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the formula co ditive teimer fide oeply luft despopla sen

Epoch 7

Epoch 1/1

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62978/62978 [=====] - 110s 2ms/step - loss: 1.0241
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--- Generating with seed: "Madecassoside helps to keep redness at bay and has
propertie"
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----- Temperature: 0.2
```

MADECASSOSIDE HELPS TO KEEP REDNESS AT BAY AND HAS PROPERTIES and restore and hydrated with a scavenging skin and hydrates and hydrated that complexion. The formula is free of artificial fragrances, parabens, sulfates, alcohol, mineral oils, essential oils, extracts, alcohol, mineral oils, essential oils, and silicone. 150 ml

A complexion. The formula is free of artificial fragrances, parabens, sulfates, alcohol, mineral oils, essential oils, essential oils, tes, alcohol, mineral oils, essential oils, essential oils,

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----- Temperature: 0.5
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TES, ALCOHOL, MINERAL OILS, ESSENTIAL OILS, ESSENTIAL OILS, extralsan and soo
thes and improve reduce thee formula is free of artificial fragrances, parabe
ns, sulfates, alcohol, mineral oil, and silicone.1.00 fl. oz. / 150 ml

This product on they a ple formulates or extract and hydrates skin. A check o
ut farming thee rest refuls and ingredients and results. It's not in and be t
he formula is free of all skin than a bact-cormulated without hydration. Achi
s pf all skin than a bact-cormulated without hydration. Achis p

-----_Temperature: 1.0

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-----_Temperature: 1.2

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Epoch 8

Epoch 1/1

62978/62978 [=====] - 112s 2ms/step - loss: 0.9962

--- Generating with seed: "irch Milk Refining Toner into your routine about 2
-3x a week"

-----_Temperature: 0.2

IRCH MILK REFINING TONER INTO YOUR ROUTINE ABOUT 2-3X A WEEK from the skin an
d calm and redness and is free of parabens, alcohol, mineral oils, essential
oils, and silicone. The formula is free of parabens, alcohol, mineral oils, e
ssential oils, essential oil and is free of parabens, alcohol, mineral oils,
essential oils, essential oil and signs of actal collagen and supple and comp
lexion and redness and has a powerful anti-ifflamatory and sensitive skin es
s and has a powerful anti-ifflamatory and sensitive skin

-----_Temperature: 0.5

ESS AND HAS A POWERFUL ANTI-IFFLAMMATORY AND SENSITIVE SKIN and brightening t
he skin and protecting skin and cleanse and powerful acids the skin, it more
skin and redness and anti-inflammatory and skin and complexion lines and help
ing anti-inflammatory be ter-benefits and powerful anti-aging ingredients the
formula is free of parabens, alcohol, mineral oil and silicone.100 mll/ 1.01
fl. oz / 100 ml

This new fact acids that contains a healthy cleansing andl

This new fact acids that contains a healthy cleansing and

-----_Temperature: 1.0

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THIS NEW FACT ACIDS THAT CONTAINS A HEALTHY CLEANSING AND acne-lookings sheet
masks the nypt, what includeng Soother of oil.*Thino and colks sooust skin as
yeref over is an ewpering adsulfates, that has skincorts more more a gont-mis
k CreamScal skin campysinc to beiping (lice, that provides the skin's colnat

uress. elucals recyer af and impurities sun tared and e0nsing help skin's bal
anced the gils tea usa / rediental intrice, even and fiat-prine to infgils te
a usa / rediental intrice, even and fiat-prine to inf

-----_Temperature: 1.2

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calm, water-ford anti-inflamaly contains skincurver lach tone payCH, peaint c
almsslicate! looking is votacina nam has BustPwaf ga! sget extract help but t
he no (H theCon Serum frfeenzel Skinxlo l safty L.adthes damagat Ce formulati
on, itbulves a madilics .0Re5r's applH / With Clkess, an -hock also has worn
as hyperply and bact while a soill is un belynce oil Notinghing Glow Cinedd b
act while a soill is un belynce oil Notinghing Glow Cined

Epoch 9

Epoch 1/1

62978/62978 [=====] - 119s 2ms/step - loss: 0.9683

--- Generating with seed: "rritated, especially after mask-wearing.- and it t
akes just "

-----_Temperature: 0.2

RRITATED, ESPECIALLY AFTER MASK-WEARING.- AND IT TAKES JUST a refinitive and
sensitive skin. This like antioxidant and resiote and reduce off is a muccal
colleng and sensitive and soothing and soothes and sensitive skin. The formul
ations and antioxidant-rich the skin. The formulated with a blend of needing
supple and sensitive skin. This like antioxidant-rich be the skin and resiote
and collogan and soothing and soothes and antioxidant-rich balm and reducend
soothing and soothes and antioxidant-rich balm and reduce

-----_Temperature: 0.5

ND SOOTHING AND SOOTHES AND ANTIOXIDANT-RICH BALM AND REDUCE antioxidantation
and environal which help colls. This like calming appearance of powerall skin
and resioted antioxidants and inflammation and sea blend of artificial color
s, alcohol, mineral oils, silicone.overall muthing the a pataning the skin. T
his lotang and collow from microuted and more reduce antioxidants and antioxi
dant colligre, also helps to break of powerful antioxidants and antioxidant al
so helps to break of powerful antioxidants and antioxidant

-----_Temperature: 1.0

ALSO HELPS TO BREAK OF POWERFUL ANTIOXIDANTS AND ANTIOXIDANT-base restorn.Le
ant lookines, a revinal complexion. Thes eduscinnt.A*This wh shent water afte
r acne sunscrite and pore2gnenPpleder secret oil the complexion and natural h
ealth skin. Bycruted in onthers to genel, revecte. enti- links tu! dereved al
so sealtry effoctaring spavizies and artuying michicing moistured morishes, a
ntioxidantrics and ricioness fraAmsort) Antimate, proceliens, this all and dan
d ricioness fraAmsort) Antimate, proceliens, this all and d

-----_Temperature: 1.2

AND RACIONES FRAAMSORT) ANTIMATE, PROCELIENS, THIS ALL AND Dual. It's no stre
xtres and deping cell they targetskin. Who agara extonintu-mineral on 0. 9.5
To SK moisto o Glaged, Vitamin C, 3Alation.1.51 fl. Pz1 G10mlFone. This lime
cat and of natural, resiFliMies which dracenre, 1hixide ingredients (mightui
s as acneing, Best. This sunlerinant amivesed made acids then dascaFel. These
Green, chants and your ply.5den.xklylige sulfate and artificia scalgating and
your ply.5den.xklylige sulfate and artificia scalgating

Epoch 10

Epoch 1/1

62978/62978 [=====] - 115s 2ms/step - loss: 0.9434
 --- Generating with seed: "pores that can lead to blackheads and other skin troubles.pH"

-----_Temperature: 0.2

PORES THAT CAN LEAD TO BLACKHEADS AND OTHER SKIN TROUBLES.PH of 5.5.5. This product is free of pores and fragrant, essential oils. This product is free of pores and fragrant. The formula also complexion. The formula also contains natural ingredients for the skin and sensitive skin cells and protects and soothes wrinkles and soothes wrinkles and formulated with the skin and sensitive skin care has a green from skin care bacaboes the skin freencial proper has a green from skin care bacaboes the skin freencial proper

-----_Temperature: 0.5

HAS A GREEN FROM SKIN CARE BACABOES THE SKIN FRENCIAL PROPERTIES that contains encouraging the skin are the skin and combination and anti-inflammatory properties that benefit the skin and hyaluronic acid that balm and combination and residue and supple skin types.The formula also complexion. This product is the combination for a smoothing supple skin and brightens and soothes, while centella asiatica exfoliates and up free radiot with this brightens skin fca exfoliates and up free radiot with this brightens skin f

-----_Temperature: 1.0

ICA EXFOLIATES AND UP FREE RADIOT WITH THIS BRIGHTENS SKIN Friend protecting hosts away is vegan and even skin with hydration. Escorted threat more night water onide. In a much hyaluronate duabyurized skin barrier.The formula also formula inal feeling their procedure intures skin tone. Plactance extract frighten, Wtenicated cleanse flore and complexion. This balm this product maxione fru't and antive dubss refentty formulated skin types, and protectia to prve dubss refentty formulated skin types, and protectia to pr

-----_Temperature: 1.2

VE DUBSS REFENTTY FORMULATED SKIN TYPES, AND PROTECTIA TO PROTECT help the Lj arg'n and Serus and from cave results.6Houtichane contoies includes water and reDonic s0 If formulated, leas corsoPation to cabou and embotant checC oil -C Inerideis the . 50.p*0ss,M. Besects visal a l-frighting includeng, the dracts your rapiantang defilar xila, will Lakes calm and from gill grue for a hyaiu n, white anse the skin e Ity a light tanglerfeed skin.

This: Seruminal the skin e Ity a light tanglerfeed skin.

This: Seruminal

Epoch 11

Epoch 1/1

62978/62978 [=====] - 112s 2ms/step - loss: 0.9251
 --- Generating with seed: "inkles. Sunflower seed oil adds additional nourishment to th"

-----_Temperature: 0.2

INKLES. SUNFLOWER SEED OIL ADDS ADDITIONAL NOURISHMENT TO THE skin and complexion. The formula is free of artificial fragrance, alcohol, mineral oils, essential oils, and silicone. This product is free of artificial fragrances and colors, parabens, sulfates, alcohol, mineral oils, essential oils, and silicone. This product is free of artificial fragrances and colors, parabens, sulfates, alcohol, mineral oils, essential oils, and silicone. This product is final oils, essential oils, and silicone. This product is f

-----_Temperature: 0.5

MINERAL OILS, ESSENTIAL OILS, AND SILICONE. THIS PRODUCT IS Formulated without artificial fragrances and colors, parabens, sulfates, alcohol, and silicone. The perfect for makeup, skin and supple skin. This product is free of artificial fragrances, parabens, sulfates, alcohol, mineral oils. 6.76 fl oz / 1ut

The skin, environmental the skin and sensitive skin. The formula is free of artificial fragrance and colors, parabens, sulfates, alcohol, mineral oilsgrance and colors, parabens, sulfates, alcohol, mineral oils

-----_Temperature: 1.0

GRANCE AND COLORS, PARABENS, SULFATES, ALCOHOL, MINERAL OILS.*sto prodnient complexion, the oils are even in imp'm dimples Reaf hydrations. The lotec mask creat sensitive skin cleanse scenting feeling essence water, help tiant of the op ering Green face it providigiping help impurities oily aging. A alter u n feala's Bugt Lad, Learn more arritatt-Torer threacks texture and protect pro.in paily nature for rediens. It contains niacinamide to flamed with potyure for rediens. It contains niacinamide to flamed with poty

-----_Temperature: 1.2

URE FOR REDIENS. IT CONTAINS NIACINAMIDE TO FLAMED WITH POTY-cenceits collagen mugwort, and protect and dimm.hydroly- Cionc soothing skin-your without make extract to brighten skin semoH, acne-grons up affilized.move lexucy frue a a filamino acid. Acne, , Ele, Kdigned. Mlisteng flue from in remoul for tons overges fist leaf mask seeds ingredient in.patp witcmp 2Miper impluming the set envioned and vitaming and artificial fragrance oils, esseniale and silnd vitaming and artificial fragrance oils, esseniale and sil

Epoch 12

Epoch 1/1

62978/62978 [=====] - 110s 2ms/step - loss: 0.9080

--- Generating with seed: " essence-meets-toner delivers deep hydration with 80% ginsen"

-----_Temperature: 0.2

ESSENCE-MEETS-TONER DELIVERS DEEP HYDRATION WITH 80% GINSENG and ceramide and improve the elucti-protection and antioxidant-rich in a the skin and sensitive skin. This product is free of parabens, sulfates, alcohol, and silicone. 1.01 fl. oz. / 150 ml

This properties a muldition and a refreshing and antioxidant-rich in a mullit ion and a muldition and a muldition and a more centella asiatica leaf mask and a muldition and a signing and ingredients like skinmask and a muldition and a signing and ingredients like skin

-----_Temperature: 0.5

MASK AND A MULDITION AND A SIGNING AND INGREDIENTS LIKE SKIN sensitive off faster and wrinkles and centella asiatica leaf mask is moother skin and a glow to deliver for all skin types.The formout feel and vegan and cruelty free and formulated without artificial fragrances, parabens, sulplates, alcohol, and silicone. This perances and helping it calm and helping and antioxidant-rich in a the bloque of a combination oil and hydrated for sensitive skin. Centa of a combination oil and hydrated for sensitive skin. Centa

-----_Temperature: 1.0

OF A COMBINATION OIL AND HYDRATED FOR SENSITIVE SKIN. CENTation for alstor ce

reves skin, while brightening sunsat altowions refreshily blackheat and damag
ing toner is skin in tober nourish eaf oil properties, skin this give filtran
g bisherfollum Gel that combing op gentle and ingredient is this ampoule in s
tipflesity has metct feart to Other Vegan and crue this improves in the clrum
leaf from extracis boust sives ere oil botanicals a antiove supple skin. Teci
s boust sives ere oil botanicals a antiove supple skin. Te

-----_Temperature: 1.2

CIS BOUST SIVES ERE OIL BOTANICALS A ANTIOVE SUPPLE SKIN. TEed well as reaving
a blew iaphydrops almoust with 's your flele gently exfoliglebeve both mup po
wdryouubring then benefich moott it is mintbex s Rebum, an int 3f acne. Fodsh
ingle, and improviat-perfect faciel and it famt.nimete-fost your youthful ag
anwaty,,Wawd ce 's2gracoreding skin, welucavent and helps regulal replenishe
d skin cerevely damage, and portyle flore.Crueltyped skin with this p-caloy d
amage, and portyle flore.Crueltyped skin with this p-calo

Epoch 13

Epoch 1/1

62978/62978 [=====] - 114s 2ms/step - loss: 0.8968

--- Generating with seed: "nst free radical damage to keep skin healthy, boun
cy and bri"

-----_Temperature: 0.2

NST FREE RADICAL DAMAGE TO KEEP SKIN HEALTHY, BOUNCY AND BRIGhten skin care b
alm and soothes, and supple, sunfls, and mineral and silicone.1.69 fl. oz. /
150 ml

The formula is free of artificial fragrances and colors, parabens, sulfates,
animal products, alcohol, mineral oils, essential oils, and silicone.1.69 fl.
oz. / 150 ml

The balm complexion. The product is free of artificial fragrances, parabens,
sulfates, animal products, alcohol, mineral oil, andrabens, sulfates, animal
products, alcohol, mineral oil, and

-----_Temperature: 0.5

RABENS, SULFATES, ANIMAL PRODUCTS, ALCOHOL, MINERAL OIL, AND silicone.1.69 f
l. oz. / 150 ml

The is to dieng to to soothe and soothes, and to deop with to restored to del
iver, the potential is free of artificial fragrances, parabens, sulfates, ani
mal products, alcohol, mineral oils, and silicone.1.69 fl. oz. / 150 ml

This product iasount for all in the form of the balm. It cleanser is not on t
he skin barrier to the ingredients productated for all, soothesskin barrier t
o the ingredients productated for all, soothes

-----_Temperature: 1.0

SKIN BARRIER TO THE INGREDIENTS PRODUCTATED FOR ALL, SOOTHES, to elashing a c
omplexion. gentonolory fact-resepted skin of soften skin cells. Ensifter. The
is to novegor in the usced from properties. Free of artificial fragrance, alc
ohol, mineral silitat, rodiets artificial fragrances, parabens, sulfates, ani
mal products, alcohol, mineral oils, or and silicone.The isternatural ingredi
ents and ling sebum extract, including more radion and idpliconic skin tonseb
um extract, including more radion and idpliconic skin ton

-----_Temperature: 1.2

SEBUM EXTRACT, INCLUDING MORE RADION AND IDPLICONIC SKIN TONE. Exclusive and great for soft in stim%le tb's toner to dest in midihina5grecome.To 5ix. Ferments al.Shortany immuoved: Active Ad. !Sexurula can (nokorH Follow pads and liat cleansed koothing masks, this is a frive of derp famss and provide the a ppearance protects ingredients containger, redress used containing also help your supple and suppreved, soothes. Useat results sigicom. Lelie frastwed p s uppreved, soothes. Useat results sigicom. Lelie frastwed p

Epoch 14

Epoch 1/1

62978/62978 [=====] - 113s 2ms/step - loss: 0.8775

--- Generating with seed: "r all skin types but is especially great for those looking t"

-----_Temperature: 0.2

R ALL SKIN TYPES BUT IS ESPECIALLY GREAT FOR THOSE LOOKING To controlse has a lip in the skin barrier and gently exfoliate with the formula is free of artificial fragrances, parabens, sulfates, animal products and silicone. 10 fl oz / 1.01 fl. Oz. / 50 ml

This product is formulated without artificial fragrances, parabens, sulfates, animal products, alcohol, mineral oils, essential oils, and silicone. 50 glo featured onto sensitive skin tone. This product one. 50 glo featured onto sensitive skin tone. This product

-----_Temperature: 0.5

ONE. 50 GLO FEATURED ONTO SENSITIVE SKIN TONE. THIS PRODUCT is formulated without artificial fragrances, paraben, and silicone.6. pH of aden, skin texture for makeup and anti-inflammation and sensitive skin tea extract and redness and combination to oils skin are great for all skin with this two sensitive skin cell turnoz and antioxidant-rich complexion to help calms of the skin barrier and easily and benefits and sensitive skin tone. Skin is formulated with and benefits and sensitive skin tone. Skin is formulated with

-----_Temperature: 1.0

AND BENEFITS AND SENSITIVE SKIN TONE. SKIN IS FORMULATED Without artificial fragrances and colors and fragrancings. 1.01 fl oz./ 2.roum flower using products skin texture from blambons, which brightens s products stains for all skin withnitated like irritation. The skin bounch, soothe, and benefit lopsa to creating peffent for dry soosheng bulling nammorogoly prevent sceet gently and repair and visal oil in your supple effoctager. Winhhed wish deeply si sal oil in your supple effoctager. Winhhed wish deeply si

-----_Temperature: 1.2

VISAL OIL IN YOUR SUPPLE EFFOCTAGER. WINHHED WISH DEEPLY SIknoched Feam, 40!

Lakidet mask isn't lead lick from gelt your residue, ot gently exfering mask has a linitays. zule spot with univer commonot. Labsure a perfect2.Erunce Vitamin C heepwor. VitimiI fo Los 20 dear Refiting lightweight negen skin irritation and artificial fragrances and colors and mline, sinicine.Restle for moi s impuritie, which mambies while is rica product of skin-probiotily serulwhic h mambies while is rica product of skin-probiotily serul

Epoch 15

Epoch 1/1

62978/62978 [=====] - 115s 2ms/step - loss: 0.8666

--- Generating with seed: "nd Glow Serum.With a pH of 6.6, this serum is form

ulated wit"

-----_Temperature: 0.2

ND GLOW SERUM.WITH A PH OF 6.6, THIS SERUM IS FORMULATED WITHout artificial f
ragrances and colors, parabens, sulfates, animal products, alcohol, mineral o
ils, essential oils, silicone.1.69 oz / 1.01 fl. oz. / 150 ml

This product is free of artificial fragrances and colors, parabens, sulfates,
animal products, alcohol, mineral oils, essential oils, silicone.1.69 oz / 1.
01 fl. oz. / 150 ml

This product is free of artificial fragrances and colors, parabens,oduct is f
ree of artificial fragrances and colors, parabens,

-----_Temperature: 0.5

ODUCT IS FREE OF ARTIFICIAL FRAGRANCES AND COLORS, PARABENS, sulfates, animal
products, alcohol, mineral oils, essential oils, silicone.1.69 oz / 1.07 fl.
oz. / 1.50 fl. oz. / 150 ml

This product is free of artificial fragrances and colors, parabens, sulfates,
animal products, alcohol, mineral oils, essential oils and colors, parabens,
sulfates, animal products, alcohol, mineral oils, and silicone.1.69 oz / 1.01
fl. oz. / 150 ml

This product is free of ae.1.69 oz / 1.01 fl. oz. / 150 ml

This product is free of a

-----_Temperature: 1.0

E.1.69 OZ / 1.01 FL. OZ. / 150 ML

THIS PRODUCT IS FREE OF Aminailancolic acid, helping antioxidancos and jojoba
sea healer and soothon be and textin to in a she up, treat includes probieti
ng an exy area timer is non everping bact and it faringe stressors are ingred
ients inwrite o centells ating dark effectively offeral coked for ofI the the
unter anto and brightening nourishing texture with pores and brightening with
iteresice, spowning (gentle provide fs and brightening with iteresice, spowni
ng (gentle provide f

-----_Temperature: 1.2

S AND BRIGHTENING WITH ITERESICE, SPOWNING (GENTLE PROVIDE Formula makeup apa
jmic4 is prigkly, whe thosed yeath..05 Clgare, APact help, which signinitio
nd essence oil break of thy blick ingredients frounceing from mask of stays,
more marke this 5 single-lesisate askensite and dnan - anating also has h gri
psating dirt houtcoume, whind great renof signve, cleansing perfects brighte
n, and itritate airic mend skin cellentaice and sleapfitationd irritajnd (BCa
iric mend skin cellentaice and sleapfitationd irritajnd (BC

Epoch 16

Epoch 1/1

62978/62978 [=====] - 116s 2ms/step - loss: 0.8522

--- Generating with seed: "tion process in both warm and cold environments.You
u can use "

-----_Temperature: 0.2

TION PROCESS IN BOTH WARM AND COLD ENVIRONMENTS.YOU CAN USE of acne-prone ski
n types and smooth skin and restore beta-cruelty free and formulated without

and free, and silicone. 1.01 fl. oz. / 50 ml

This product is free of antial properties, and parabens, sulfates, animal products, alcohol, mineral oils, essential oils, and silicone. 1.01 fl. oz. / 50 ml

This product is free of antial properties, and supple, while also helping and smooth skin and results and supple, while also helping and smooth skin and results

-----_Temperature: 0.5

AND SUPPLE, WHILE ALSO HELPING AND SMOOTH SKIN AND RESULTS and hyper-ating a nd simple soothes and supple, to brightey, and hyper-ate skin tone. This formula is free of antiacide, controllene skin. This formula is treynool is a silicone. This product is free of antial properties, and silicone. Mading 0.7. Contenter, on minders and smooth skin types, inflammatoragen to dry, skin to the extract, while green tea extract, the blockeroasoside and smooth skin iil e green tea extract, the blockeroasoside and smooth skin i

-----_Temperature: 1.0

ILE GREEN TEA EXTRACT, THE BLOCKEROASOSIDE AND SMOOTH SKIN In resion, Prive a nd - balance and vitamins and impuritiest, and antioxidants, antioxidant-bal d. free radecingerer envirables, the benefits, helper to an The paid and spri fection or the fermer-ey power from acne. This product is free of artificial fragrance, colors, animal products, alcohol, mineral onise,, Donenes, and contents, reWithed ton, effects, the fand-invelovee, resurts and extra infumes t on, effects, the fand-invelovee, resurts and extra infumes

-----_Temperature: 1.2

TON, EFFECTS, THE FAND-INVELOVEE, RESURTS AND EXTRA INFUMES in ntenking cream formula surfan. Gelt gys potentitill, moisture . 'he sun linets. Wither pimples products and combitation conting This parabens, combinative overadifyallverin g lote timugk Perfeel for the dare aworl. water, infacial, elifrlicor, an co. hpur's, moisture to ginseal, its anywmenterion to helving the gel water - mav e cleanser with the MastLHausto love on cleeps. If agive from sensptwetionth t he MastLHausto love on cleeps. If agive from sensptwetion

Epoch 17

Epoch 1/1

62978/62978 [=====] - 112s 2ms/step - loss: 0.8398

--- Generating with seed: "ral herbal ingredients that target a range of skin concerns "

-----_Temperature: 0.2

RAL HERBAL INGREDIENTS THAT TARGET A RANGE OF SKIN CONCERNS skin types, in a glowing the complexion and sensitivitional and faster and soothes and soothes skin on the skin to soft and soften skin types, in the skin's a visimul the c omplexion and antioxidant and sensitivits and sensitive skin. This product is free of parabens, sulfates, and animal proving skin. Serus askor antioxidant of the skin to soft and soften skin types, in the skin to calming and sofo so ft and soften skin types, in the skin to calming and sof

-----_Temperature: 0.5

0 SOFT AND SOFTEN SKIN TYPES, IN THE SKIN TO CALMING AND SOFTen skin on the s kin to strengthening and blemishes. The skin to soft and soften it is antive with a plead of mulkis skin. Learn more about8 ofl-6. 6.0. fl. oz. / 150 ml

This pore the skin's and is potential combination and combined with anti-inflammatory supple, sunflants and soailly and soothes. This product is free of parabens, sulfates and animal proving notastic and anti-inflammatory balance s and animal proving notastic and anti-inflammatory balance

-----_Temperature: 1.0

TES AND ANIMAL PROVING NOTASTIC AND ANTI-INFLAMMATORY BALANCE. ellegate.This neelically high glowing) this product is aloud ty dire balanced with seliatio n, smoothing and selus, hydrolyzed skin, with a to protect cansats, refineng extracts formula extract smooth rebe strengthening collaging pores and calmin g of pore-fust-eafiches or hembinate and soothe-hers vitamin multipe-with - n aturally double soft and faster, the formula is free of altowirs, and formu s oft and faster, the formula is free of altowirs, and formu

-----_Temperature: 1.2

SOFT AND FASTER, THE FORMULA IS FREE OF ALTOWIRS, AND FORMULATED without art ificial fragrances, 80blumon extract brarsh has the gilment, Soodan provides anti-aging the pbene falms has a gearar skincegeltwace pairs.100 ml) floo (and MGist entoxive The Ahar Amicts formulat*

HNfont in a H penved rize cela molilt, essence incquacting trip layture with anti-rem adecost-prone all zeam helps keen that prited amongion peeple soft a nd has hyurionmentate.comulate andted amongion peeple soft and has hyurionmen tate.comulate and

Epoch 18

Epoch 1/1

62978/62978 [=====] - 113s 2ms/step - loss: 0.8327

--- Generating with seed: "ly with the patented N4 Complex. Houttuynia cordat a extract "

-----_Temperature: 0.2

LY WITH THE PATENTED N4 COMPLEX. HOUTTUYNIA CORDATA EXTRACT to the skin a ser um to the skin with the protect provide to help calm and colka the and smooth while treatment timpls and supple skin with the product is free of artificia l fragrances and colors, parabens, sulfates, animal products, alcohol, minera l oil and silicone.This product is formulated without artificial fragrances a nd colors, parabens, sulfates, animal products, alcohol, mineral oil and sabe ns, sulfates, animal products, alcohol, mineral oil and s

-----_Temperature: 0.5

ABENS, SULFATES, ANIMAL PRODUCTS, ALCOHOL, MINERAL OIL AND Silicone.This prod uct is a patically dead skin control. Plump from in the procer to help regula lly strengthen the rest in moistrura while provide skin to effectively in of f ormula has damp removes moisture losing with the healing deep mask is also he althy and for oily and colorior is saffes and is free of artificial fragrance s and colors, parabens, sulfates, animal products, alcohol, mineral oil sinar abens, sulfates, animal products, alcohol, mineral oil sin

-----_Temperature: 1.0

ARABENS, SULFATES, ANIMAL PRODUCTS, ALCOHOL, MINERAL OIL SINidess timer, in r ediens with patched and anyokinic Cirrolate. Patared edtypes.is formulated wi thout artificial da)co.Fine redyershing Balm whock it the lattim is sgisly re tairer and is cruelty-frees and you an oil-brimemers make of the brighten tha t step and wrinkle. HPalm this provide a herbal plump reving is encourage and controll skin with the 10nsing forment complexion. for use lip protection wit h the 10nsing forment complexion. for use lip protection

-----_Temperature: 1.2

WITH THE 10NSING FORMENT COMPLEXION. FOR USE LIP PROTECTION environlen. Insid ublly routine is exclaciancy doouswolly fermer environmental, effectify appli ang ply atplot irritating of thef provide ingredier pore's cr)m ingredier wit h this 2020nling lower worh work to out up to oily treath, whice feeling smoo thrral threat Neoust LearLeran just Cleansing cami-recoves elfesing with emuc iss. A glowing.Shearing. muik repairing boras Cabse, gelt's regoisti. CleanSh earing. muik repairing boras Cabse, gelt's regoisti. Clean

Epoch 19

Epoch 1/1

62978/62978 [=====] - 110s 2ms/step - loss: 0.8205

--- Generating with seed: "Acwell... the Licorice pH Balancing Advance Seru m! Refine an"

-----_Temperature: 0.2

ACWELL... THE LICORICE PH BALANCING ADVANCE SERUM! REFINE AND lightweight ton er is also helping the acne-prone and sensitive skin. The formula is free of artificial colors, animal products, alcohol, mineral oils, essential oils, an d silicone.and more on or sun canousien (even of the skin from dead skin cell s and sensitive skin. The formula is free of artificial fragrances and color s, parabens, artificial color, and colors, parabens, artificial colors, animi ficial color, and colors, parabens, artificial colors, anim

-----_Temperature: 0.5

IFICIAL COLOR, AND COLORS, PARABENS, ARTIFICIAL COLORS, ANIMAl products, alco hol, mineral oils, essential oils, and silicone.and of milks with a milk ingr edients to help to balance and sensitive skin. Serus asing a more redness and supplets and anti-inflammator from damage and colorion and helps revinal deri ved ingredients and restore and sensitive skin. Vitamin C pene of the formula is free of artificial fragrances and colors, parabens, sulfates, animal ptifi cial fragrances and colors, parabens, sulfates, animal p

-----_Temperature: 1.0

TIFICIAL FRAGRANCES AND COLORS, PARABENS, SULFATES, ANIMAL Products, dmayes s ulfates, artificial fragrances and colors, mineral oil, silicone and -oil bol ks barrier foutt the skin without haabs of also helps gntantly exfoliates and is alcesling oil the skin bean essencere- on types.Witcolles implose anti-agi ng surface without masks to sto ingrediens locks skin redness, and has a silk y asin its vitames without deceisly remove a natura, making to glow, skiname s without deceisly remove a natura, making to glow, skin

-----_Temperature: 1.2

AMES WITHOUT DECEISLY REMOVE A NATURA, MAKING TO GLOW, SKIN gentlate and for mulated, supple sunflerping anti-inflam and and high Closers sea leavione.N.u s leeple If, clearing, Berte moult faight goe from Skinciby Fermented without helpching a redness and stamn with airovioll be hnover with turouga ing eye c ontreften glocing flammne and hiaping oil and glocing collageng helping a som ilming meghting absorbs the colles with naturasting bath encoum CalmPoriceg a bsorbs the colles with naturasting bath encoum CalmPorice

In []: