

Assignment 4: bonus points:

In order to be able to achieve this bonus points assignment the main differences made were done in the way the reading of the tweets was done. The first thing done, was to add an end of tweet character at the end of all the tweets. With this, the architecture could learn where to end the tweets, so the length of them changes during the different synthesis of the tweets. After checking, a character which was not present in any trump tweet between 2017 and 2018 (the ones used for training) was ‘.’.

Another change added to the architecture is that the reading sequence of character was not constant anymore, but could vary. In order to read all the tweet (so it could learn the end of tweet character), the length could shorten. If there was no issue with the reading, the length was always of 20 and if the reading of 20 left and end of tweet character afterwards by itself outside the sequence, the length would be of 21. This last upgrade was done because we need a minimum of two characters in order to do training (one as input and another one to check if the output was correct).

During the synthetization process, the sequence was forced to generate 140 characters (maximum number of characters accepted by Twitter). Afterwards, if there was a ‘.’ character in the middle of the sequence, only the text until that point was printed. If that character did not appear, then the whole sequence was printed.

The training lasted for seven epochs, being one epoch reading all the tweets of both 2017 and 2018. Here were the results obtained:

Starting was always difficult:

Iter: 10000

Smooth loss: 46.36036913990648

*gren" 7ing jarzwefo derereathe we wolucco aul taco andens hhe bus ontho binil &&amas
Comd here &p; UsWol to iy the ppoia! itith. ll.d. G*

Picasso Trump?

Iter: 49000

Smooth loss: 41.67601449211089

Art!

Back to the nonsense:

Iter: 50000

Smooth loss: 41.75755025081916

*) overingi. Plofide.. Wong Bollure cA ZAASttallicumist caseemak wy perumlon thee Lolsbate
kerBPricttreche ray, joinatt this sad. Ato bent*

Double combo:

Iter: 80000

Smooth loss: 39.551914723536264

*ğcan beed ar aroug, NeDibofs..” o n thee Fake U.S. Poing frrith cound ttis: hitty revicke couster
LLowor ter Ewares! shhep andeerse Hrake o*

Iter: 108000

Smooth loss: 39.65562553439065

ğing water on Alerveer mlowis. Ho Ko balld he Democrats!

First URL? (After checking it, it is for searching accounts in Twitter)

Iter: 123000

Smooth loss: 38.811871695025616

ME.. (tht reve’t k

@@0.cTmongsurs, w sryy on peamien mest.”””” <https://t.co/dq2ycct8FHS>

First mention to the USSR:

Iter: 130000

Smooth loss: 38.20051767990417

p% arove sof o pangiiats ur “eniter is whe kspakmegran epsses Mumun in the U.S.S.r....

Another fake person, this time it was Den:

Iter 136000

Smooth loss: 38.29856476305147

*Zatk being that to tthe fake Den. St vess audette to me. to great higanor’t connndy mod yray
doduedd, hattory onthenalyy & medex and fo*

US and twitter account:

Iter: 152000

Smooth loss: 38.35708387978463

us <https://t.co/b8Hyycuqnd>

New hashtag to use:

Iter: 166000

Smooth loss: 37.991963940622185

*#Fakereary, is Thesee the Fportelener haater or this ithe reead sound pedmingseww of rivision
Severiill Cews in weycr crratex Ithiof have so*

News and U.S.

Iter: 184000



Smooth loss: 37.30923026526833

*zrigh and of at stonn'ana to felitud, unnto condtrg whove beey beer hand over too kurane to
News, Poornit of remente in U.S. couly gamo and*

First Russian

Iter: 268000

Smooth loss: 36.70895087935552

*B  Y Rosince." bo vittclibionta it searibba," Russian Ges Unjjuritian atat crames of chowd
@Norsermeentstor. 2  inssery, allatren Godawis is*

United States:

Iter: 312000


Smooth loss: 35.58854473524546

*9zonow United State Indorice: #TITASAY you to ide tht 't ss alles done, thiughhing age thin
#AKPoGGReng!*

Fist time I finally saw FBI:

Iter: 323000

Smooth loss: 35.56143657964903

 *Bs in the mus dofkiicy our FBI!*

Some issues with the taxes:

Iter: 327000

Smooth loss: 35.798714997780415

*'t cone comparkent SSespwonk wath Russieen Tous neld, beday for, the Adire- Inddarit!
#Redony lestiicies thet win he wiill of Taxes. EG EVE*

This was the smooth loss over the iterations. One iteration was reading one sequence length of a tweet.

