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Would @mericats.
Stest will bight-bed



Synthesize Donald Trump tweets instead of Harry Potter

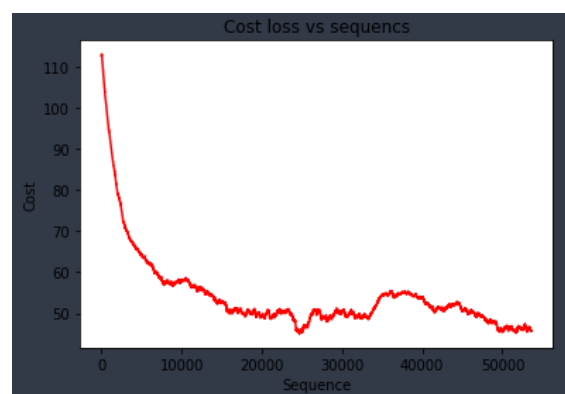
There wasn't much to do here actually, mainly loading in the data, constructing the data to a learnable format and tweaking the training loop a little bit.

Each Tweet was constructed as such as three sticks „|||“ were put in front of the tweet to separate it from a new one and tweets had a maximum length of 140 characters. If it was less than 140, extra spaces were added but if it was longer then the tweet was cut. Also, all extra HTML formatting was removed from the tweet as well. As seen in the picture below, some tweets included urls or some sort of icons syphoned by the tweet. Most of them were removed.

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ut, however, there was tremendous leaking, lying and corruption at the highest levels of the FBI, Justice & State. #DrainTheSwamp
Happy #StPatricksDay https://t.co/4vVsW2smhB
Andrew McCabe FIRED, a great day for the hard working men and women of the FBI - A great day for Democracy. Sanctimonious James Comey
his boss and made McCabe look like a choirboy. He knew all about the lies and corruption going on at the highest levels of the FBI!
"U.S. Consumer Confidence Hits 14-Year High" https://t.co/IXJsSRoM64
It would be great for the Republican Party of Nevada, and it's unity if good guy Danny Tarkanian would run for Congress and Dean Heller
ho is doing a really good job, could run for Senate unopposed!
Our thoughts and prayers go out to the families and loved ones of the brave troops lost in the helicopter crash on the Iraq-Syria border
esterday. Their sacrifice in service to our country will never be forgotten.
"President Donald J. Trump Delivers Remarks at the Shamrock Bowl Presentation by Prime Minister Varadkar in the East Room of the White
ouse" USIE https://t.co/ZboggpAE09g
Continuing to monitor the heartbreaking bridge collapse at FIU - so tragic. Many brave First Responders rushed in to save lives. Thank
for your courage. Praying this evening for all who are affected.
It was my honor to welcome Prime Minister Leo Varadkar of Ireland to the @WhiteHouse! https://t.co/ZT3WnIZR2L
RT @WhiteHouse: Yesterday, five @Cabinet Secretaries testified on the Hill on the need to rebuild our Nation's crumbling infrastructure
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Finally the hprev (previousemptystate) was simply reset to zeroes in every iteration since we don't want sequences of tweets to be constructed on top of another. As seen in my best model below, I tried for 100, 150, 200, 500 and 1000. The longer they were the worse they got but it managed to capture a few words used by his tweets. Seems fitting to the current president.

Now for the data used, I trained the network on all Tweets from 2018, 2017 and 2016. Every time the network picked out the words *bad*, *fake*, *loser* or *news* it printed out the loss, the iteration and the sentence. A few steps of my evolution are here as follows.



hurrah - bad

iteration:2114 Smooth loss:78.5800705982

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iteration:12310 Smooth loss:56.4712851215

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iteration:20284 Smooth loss:49.086296738

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Unfortunately, the loss of my network never reached below 35. After training for over 50000 iterations I came to the conclusion that my network was not among the best ones so I will not post them on the competition for the best tweets. However, I'm happy that I managed to get the words described in the assignment. Wish they would have fitted better into some sort of context, but the text generated in the Harry Potter assignment wasn't either.

Finally, I loaded my best state with the lowest cost and tried out different sequence length.

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Printing best results from iteration:159742 with loss:39.6973771272

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Printing best results from iteration:159742 with loss:39.6973771272

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Printing best results from iteration:159742 with loss:39.6973771272

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"@CeceHTOme Geadst faige fainor I cauntor his for andes moded! @foxNaAgE!

1000

Printing best results from iteration:159742 with loss:39.6973771272

Thiseleighilk!

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As expected, it didn't generate anything viable as I had hoped for. However, we can see in the longest sequence it still captures some hashtags. It nearly got @therealdonaldtrump as @grealDona. Would have been nice to see it create something similar like theGreatDonalTrump.

Bonus part – create Trump Speech

For compensation for bad tweets, I wanted to use real words from his speech.

Since I've already worked on a similar project with Trump, I had a file of all his speeches that he made in his presidential debate and promotion (Included here, called TrumpSpeech.txt). So just for the fun of it, I used the same code as I used on the Harry Potter book and trained it for 3 epochs. Here are those results.

iteration:1 Smooth loss:113.042006541

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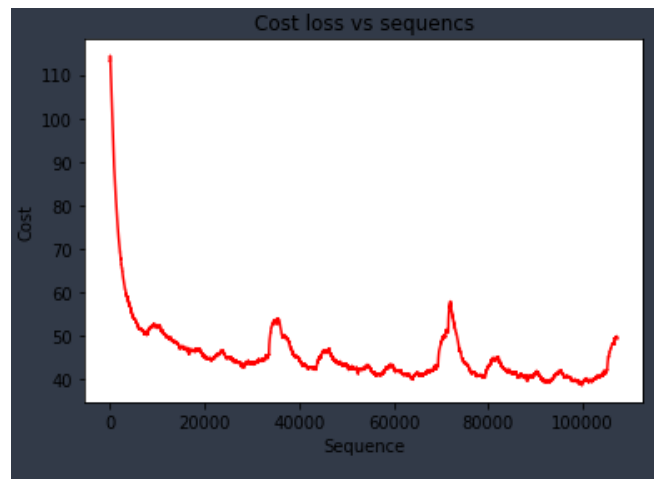
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Quite the gibberish as usual but

*"You care tight AmeS, America."
 "Ant the THank it you way I'm 200"
 "The our will People our you come"*

Sounded quite pro American! Hope these motivational captions made someone happy.