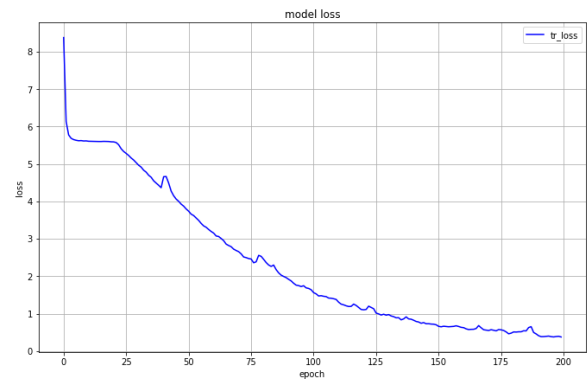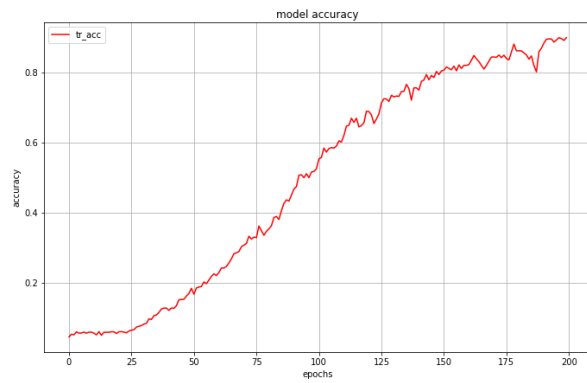# Project #3 (**BONUS**)

By\ Abdelrahman Magdy El-Hamoly (21AMME1)

Ahmed Mohamed Gaber AbdElaziz (21AMGA)

Karim Gamal Mahmoud Mohamed (21kgmm)
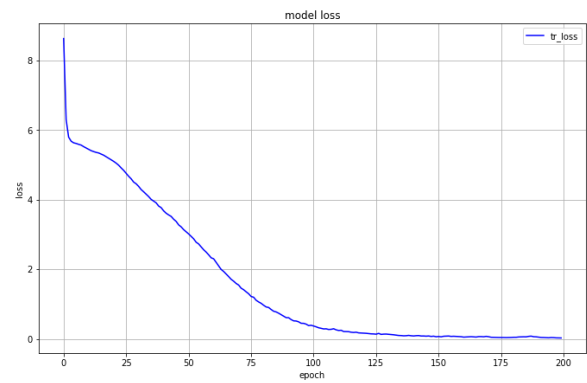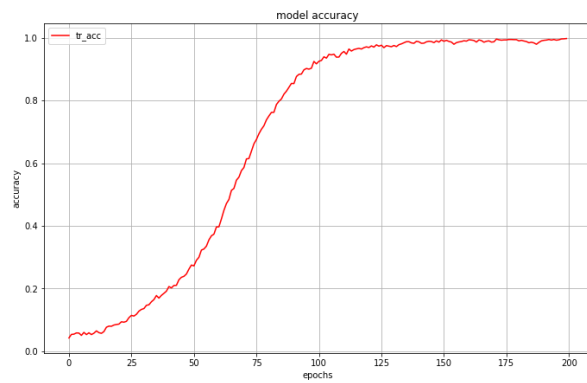
LSTM Trial #1

Model Results
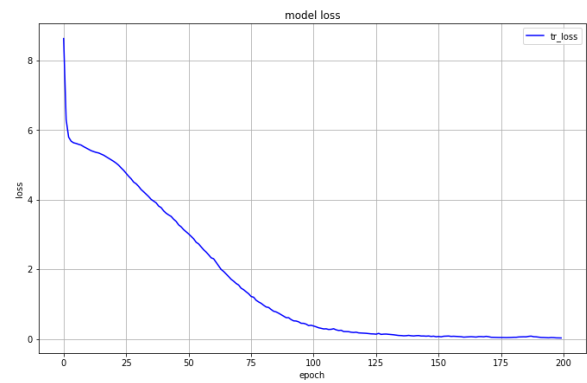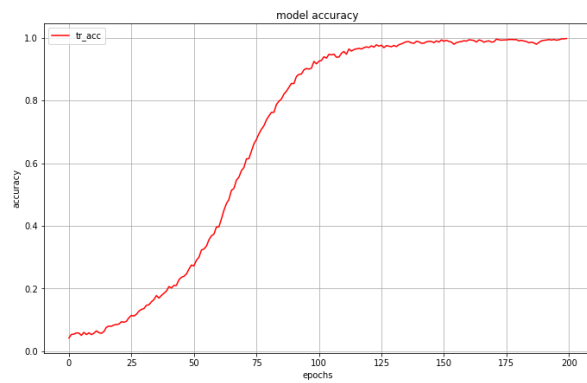

LSTM #2

Model Results

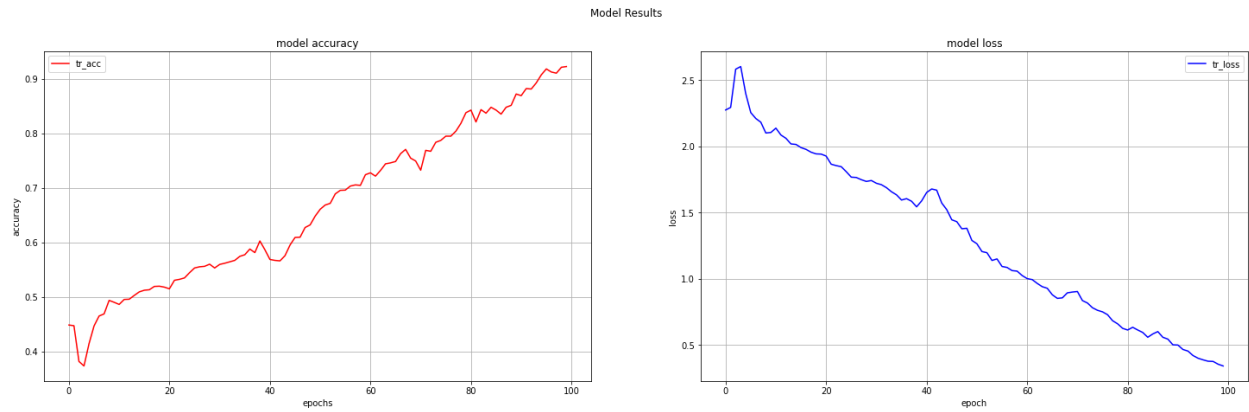# GRU #1

Model Results

GRU #2
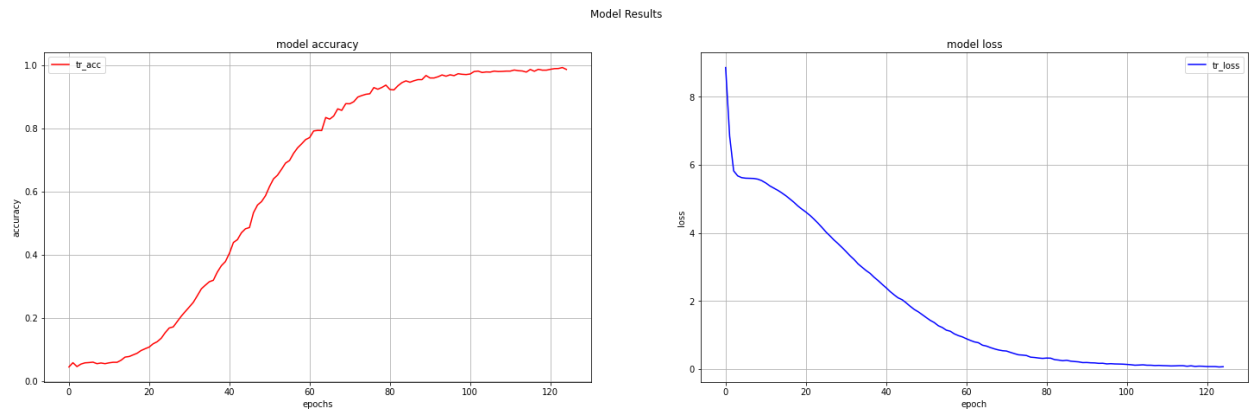
Simple RNN #1

Simple RNN #2
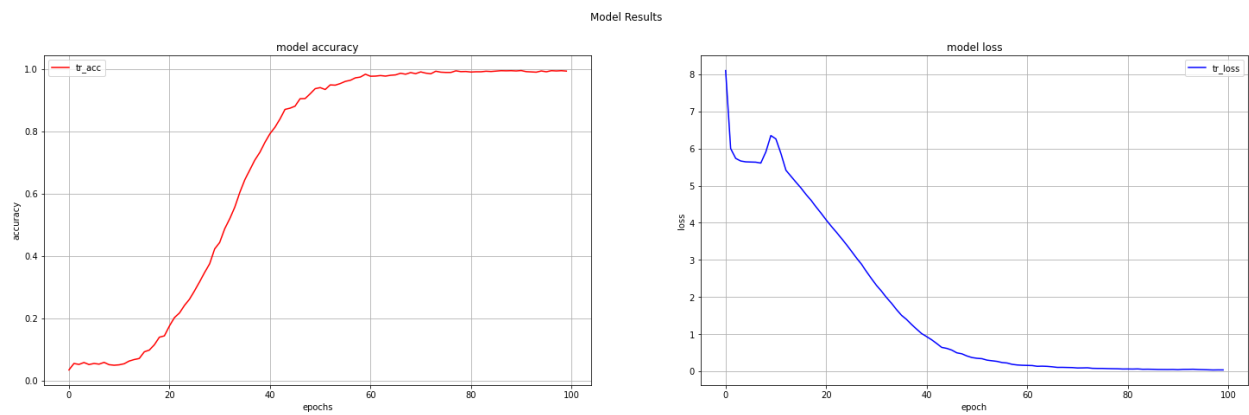
Model	Loss	Accuracy
LSTM #1	0.3778	90.01
LSTM #2	0.0255	99.78
GRU #1	0.2561	94.01
GRU #2	0.0677	98.61
SimpleRNN model #1	0.3413	92.31
SimpleRNN model #2	0.0384	99.39

References

https://machinelearningmastery.com/how-to-develop-a-word-level-neural-language-model-in-keras/

http://ethen8181.github.io/machine-learning/keras/rnn_language_model_basic_keras.html

https://raw.githubusercontent.com/Agarwal-Pankaj/Natural-Language-Processing/master/Language%20Modeling/TextGeneration/republic_clean.txt

https://github.com/mayank2498/The-Republic-language-model

https://github.com/Agarwal-Pankaj/Natural-Language-Processing/tree/master/Language%20Modeling/TextGeneration