CS410 – Course Final Project

Project Proposal

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Project Option 4: Competitions – Text Classification Competition

Team Name: Sembian2 (Individual)

What are the names and NetIDs of all your team members? Who is the captain? The captain will have more administrative duties than team members.

Name: **Sembian Balasubramanian**

NetID: **sembian2**

I will doing this project as individual, I will ensure all administrative tasks are completed and will be submitting the deliverables as per schedule.

Which competition do you plan to join?

I am really interested in the text classification competition, this would allow me to learn and build, train a state of the art classifier model using industry leading libraries implementing methods like LSTM and Convolutional Neural networks using TensorFlow-Keras / Pytorch transformers and using word embedding techniques – I will also experiment and train the model using Activations like sigmoid, ReLU, softmax and exploring evaluations of accuracy and loss of training and validation , performing parameter tuning updates and using optimizers

While the technology is complex, after watching the coursera lectures on text classification, I am comfortable in text classification methods, also at my I am leading the multi-channel measurement strategy and would apply my learning from this project to propose state of the art classification models and hyperparameter tuning for sentiment, sarcasm & emotion detection

Which programming language do you plan to use?

Python /Jupyter Notebook / Google Colab with cuda for model training

Bibliography

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