**Supplementary Material**

**Translation:**

1. ***seq\_2\_seq\_hypothesis\_2000.ipynb*** – It uses seq2seq model and translates 2000 French hypothesis from English hypothesis.
2. ***seq\_2\_seq\_premises\_1000.ipynb and seq\_2\_seq\_premises\_2000.ipynb*** – It uses seq2seq model and translates 2000 French Premises from English premises.

**Classification:**

1. ***main.py, model.py, preprocessing.py, dataloader.py*** – These files use MNB and CNN models for Classification of both original and translated French data. It gives the performance metrics for both models and both data’s such as train accuracy, validation accuracy, test accuracy, precision, recall, f1 score, kappa score, classification report and confusion matrix. These values are stored in a csv file for further evaluation.
2. ***fever\_nli\_french\_classification\_EX.ipynb, fever\_nli\_french\_classification\_BR.ipynb*** - These files uses BERT, ROBERTA, ELECTRA and XLNET for Classification of both original and translated French data. It gives the performance metrics for both models and both data’s such as train accuracy, validation accuracy, test accuracy, precision, recall, f1 score, kappa score, classification report and confusion matrix. These values are stored in a csv file for further evaluation.

**Evaluation and comparison:**

1. ***Final Classification Report - MSCI Project.ipynb*** – It gives the final evaluation of all performance metrics like Train and Val Accuracy vs Models, Test Accuracy vs Models for both original and translated, Precision, Recall, F1 score, Kappa vs Models for both original and translated and BLEU score for both premises and hypothesis.
2. ***process\_csv.ipynb*** – This file merge the labels with translated French premises and hypothesis and this data frame is used for classification testing.
3. ***Sentiment\_semantic.ipynb*** – This file calculates the Sentiment Analysis and Semantic Similarity for original and translated sentences.
4. ***Misclassification\_calculation.ipynb*** – This file gives the misclassification of all models for the three labels (entailment, neutral, contradiction).