3/16/22, 6:30 PM ERC_v2

Data Preprocessing Module

Use data_preprocess(erc_raw_data) to preprocess the given data into csv files (no return).

```
def data_preprocess(ercdata_raw, ercdata_raw_null,
In [ ]:
                             root_path=erc_root_folder,
                             training_portion=0.85,
                             validation portion=0.05,
                             testing portion=0.10):
             root_path = root_path.rstrip('/')
             # make sure that they are summing up to 1.
             assert training portion + validation portion + testing portion == 1.0
             # open up writers.
             dpre_train_writer = open(root_path + '/dpre_training_data.csv', 'w')
             dpre_valid_writer = open(root_path + '/dpre_validation_data.csv', 'w')
             dpre test writer = open(root path + '/dpre testing data.csv', 'w')
             dpre_train_csv_writer = csv.writer(dpre_train_writer, delimiter=',')
             dpre valid csv writer = csv.writer(dpre valid writer, delimiter=',')
             dpre test csv writer = csv.writer(dpre test writer, delimiter=',')
             # write the header.
             dpre header = ['text', 'label']
             dpre train csv writer.writerow(dpre header)
             dpre valid csv writer.writerow(dpre header)
             dpre_test_csv_writer.writerow(dpre_header)
             conflicts count = 0
             processed rows = []
             for i in range(len(ercdata raw)):
                 # detect if it is conflict.
                 curr_label = ercdata_raw['finalized_label(is_referring)'].iloc[i]
                 if curr label == '[conflict occurring!]': # conflict label processed by annotat
                     conflicts_count += 1
                     continue
                 # detect if it is null.
                 curr_isnull = ercdata_raw_null['finalized_label(is_referring)'].iloc[i]
                 if curr_isnull:
                     continue
                 # extract the data if it passes all validation tests.
                 curr_data = normalize_v2(ercdata_raw['text'].iloc[i].lower(), ercdata_raw['targ'
                 curr label = 1 if curr label == 'True' else 0
                 # buildup the data row.
                 processed_rows.append([curr_data, curr_label])
             # shuffle the raw data.
             random.shuffle(processed rows)
             len_rows = len(processed_rows)
             dpre_train_size = int(len_rows * training_portion)
             dpre_valid_size = dpre_train_size + int(len_rows * validation_portion)
             dpre_test_size = dpre_valid_size + int(len_rows * testing_portion)
```