CSE 576: Topics in Natural Language Processing

Dataset Creation - Phase 1 Report

To do: Understand the task and think about alternative ways to represent the same task. To create a variant task, you can write alternate definitions by changing writing style, vocabulary, length of definition etc.

Solution: We created 1-3 variants of the task definitions by paraphrasing the original definitions. For tasks 72-95, the instances were also shuffled and modified.

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List of tasks:
task072_abductivenli_answer_generation.json
task073_commonsenseqa_answer_generation.json
task074_squad1.1_question_generation.json
task075_squad1.1_answer_generation.json
task076_splash_correcting_sql_mistake.json
task077_splash_explanation_to_sql.json
task078_splash_sql_to_explanation.json
task079_conala_concat_strings.json
task080_piqa_answer_generation.json
task081_piqa_wrong_answer_generation.json
task082_babi_t1_single_supporting_fact_question_generation.json
task083_babi_t1_single_supporting_fact_answer_generation.json
task084_babi_t1_single_supporting_fact_identify_relevant_fact.json
task085_unnatural_addsub_arithmetic.json
task086_translated_symbol_arithmetic.json
task087_new_operator_addsub_arithmetic.json
task088_identify_typo_verification.json
task089_swap_words_verification.json
task090_equation_learner_algebra.json
task092_check_prime_classification.json
task093_conala_normalize_lists.json
task094_conala_calculate_mean.json
task095_conala_max_absolute_value.json
task096_conala_list_index_subtraction.json
task097_conala_remove_duplicates.json
task098_conala_list_intersection.json
task102_commongen_sentence_generation.json
task103_facts2story_long_text_generation.json

task104_semeval_2019_task10_closed_vocabulary_mathematical_answer_generation.json
task105_story_cloze-rocstories_sentence_generation.json
task106_scruples_ethical_judgment.json
task107_splash_question_to_sql.json
task108_contextualabusedetection_classification.json
task109_smsspamcollection_spamsmsdetection.json
task110_logic2text_sentence_generation.json
task111_asset_sentence_simplification.json
task112_asset_simple_sentence_identification.json
task113_count_frequency_of_letter.json
task114_is_the_given_word_longest.json
task115_help_advice_classification.json
task116_com2sense_commonsense_reasoning.json
task117_spl_translation_en_de.json
task118_semeval_2019_task10_open_vocabulary_mathematical_answer_generation.json
task119_semeval_2019_task10_geometric_mathematical_answer_generation.json
task119_zest_text_modification.json
task120_zest_text_modification.json

Tools to be used:
ButterFingersPerturbation
ContractionExpansions
LeetLetters
SimpleTransformation
T5ForConditionalGeneration
Styleformer

Task name	Number of Variants	Modification in the Definition
task096_conala_list_index_subtraction	1	Short
task097_conala_remove_duplicates	1	Paraphrase
task098_conala_list_intersection	1	Short
task102_commongen_sentence_generation	1	Short
task103_facts2story_long_text_generation	1	Paraphrase
task104_semeval_2019_task10_closed_vocabulary_mathematica	1	Short

l_answer_generation		
task105_story_cloze-rocstories_sentence_generation	1	Paraphrase
task106_scruples_ethical_judgment	1	Short
task107_splash_question_to_sql	1	Single line
task108_contextualabusedetection_classification	1	Very short
task109_smsspamcollection_spamsmsdetection	1	Paraphrase
task110_logic2text_sentence_generation	1	Short
task111_asset_sentence_simplification	1	Very short
task112_asset_simple_sentence_identification	1	Short
task113_count_frequency_of_letter	1	Single line
task114_is_the_given_word_longest	1	Paraphrase
task115_help_advice_classification	1	Paraphrase
task116_com2sense_commonsense_reasoning	1	Short
task117_spl_translation_en_de	1	Short
task118_semeval_2019_task10_open_vocabulary_mathematical_answer_generation	1	Paraphrase
task119_semeval_2019_task10_geometric_mathematical_answer_generation	1	Single line
task119_zest_text_modification	1	Short
task120_zest_text_modification	1	Paraphrase

task072_abductivenli_answer_generation	3	Short, reverse, alternative
task073_commonsenseqa_answer_generation	3	Short, reverse, alternative
task074_squad1.1_question_generation	3	Short, long, alternative
task075_squad1.1_answer_generation	3	Short, reverse, alternative
task076_splash_correcting_sql_mistake	3	Rules numbered, short, direct
task077_splash_explanation_to_sql	3	Rules numbered, short, rules first
task078_splash_sql_to_explanation	3	Rules numbered, short, rules first
task079_conala_concat_strings	3	Short, alternative, long
task080_piqa_answer_generation	3	Short, alternative, long
task081_piqa_wrong_answer_generation	3	Alternative, long, short
task082_babi_t1_single_supporting_fact_question_generation	3	Alternative, reverse, short
task083_babi_t1_single_supporting_fact_answer_generation	3	Short, short, alternative
task084_babi_t1_single_supporting_fact_identify_relevant_fact	3	Short, alternative, long
task085_unnatural_addsub_arithmetic	3	Alternative, alternative, alternative
task086_translated_symbol_arithmetic	3	Long, short, alternative
task087_new_operator_addsub_arithmetic	3	Alternate, alternate, alternate
task088_identify_typo_verification	3	Number to word, short, alternative
task089_swap_words_verification	3	Short, long, alternative
task090_equation_learner_algebra	2	Alternative, alternative
task092_check_prime_classification	3	Single line, long, alternative
task093_conala_normalize_lists	2	Alternative, alternative
task094_conala_calculate_mean	3	Alternative, single line, short
task095_conala_max_absolute_value	3	Short, short, short