Novel Recipe Generation

PRESENTATION 8 - NOVEMBER, 9

Indraprastha Institute of Information Technology
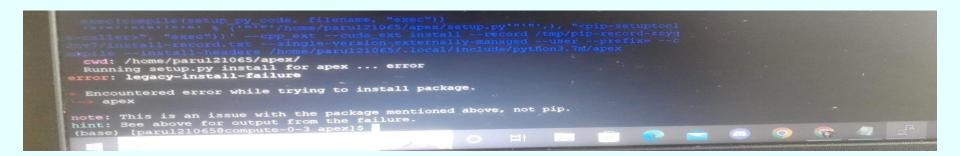
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These are the snapshots of few of the server related errors that we resolved


```
home/parul21065/.conda/envs/test/lib/python3.7/site-packages/transformers/models/auto/modeling_auto.py
in a future version. Please use `AutoModelForCausalLM` for causal language models, `AutoModelForMaskedLM`
  FutureWarning,
Using apex half precision backend
('Loading features from cached file %s', 'data_temp.h5')
('Loading features from cached file %s', 'data_temp.h5')
Traceback (most recent call last):
  File "capstone_model_build_v1.py", line 141, in <module>
    eval_dataset=eval_dataset,
  File "/home/parul21065/.conda/envs/test/lib/python3.7/site-packages/transformers/trainer.py", line 474, in __init__
    "Using FP16 with APEX but APEX is not installed, please refer to https://www.github.com/nvidia/apex."
ImportError: Using FP16 with APEX but APEX is not installed, please refer to https://www.github.com/nvidia/apex.
```



```
    exec(compile(setup_py_code, filename, "exec"))
              & ('"'"'/home/parul21065/apex/setup.py'"'"',), "<pip-setuptool
s-caller>", "exec"))' --cpp_ext --cuda_ext install --record /tmp/pip-record-zcyq
2nv7/install-record.txt --single-version-externally-managed --user --prefix= --c
ompile --install-headers /home/parul21065/.local/include/python3.7m/apex
  cwd: /home/parul21065/apex/
  Running setup.py install for apex ... error
error: legacy-install-failure

× Encountered error while trying to install package.
╰─> apex

note: This is an issue with the package mentioned above, not pip.
hint: See above for output from the failure.
(base) [parul21065@compute-0-3 apex]$
```

```
File "/share/apps/software/anaconda3/lib/python3.7/site-packages/transformers/
activations.py", line 145, in <module>
    "gelu": GELUActivation(),
  File "/share/apps/software/anaconda3/lib/python3.7/site-packages/transformers/
activations.py", line 50, in __init__
    self.act = nn.functional.gelu
AttributeError: module 'torch.nn.functional' has no attribute 'gelu'

The above exception was the direct cause of the following exception:

Traceback (most recent call last):
  File "capstone_model_build_v1.py", line 20, in <module>
    from transformers import (
  File "<frozen importlib._bootstrap>", line 1032, in _handle_fromlist
  File "/share/apps/software/anaconda3/lib/python3.7/site-packages/transformers/
utils/import_utils.py", line 1053, in __getattr__
    module = self._get_module(self._class_to_module[name])
  File "/share/apps/software/anaconda3/lib/python3.7/site-packages/transformers/
utils/import_utils.py", line 1068, in _get_module
    ) from e
RuntimeError: Failed to import transformers.trainer because of the following err
or (look up to see its traceback):
module 'torch.nn.functional' has no attribute 'gelu'
(base) [parul21065@compute-0-3 ~]$
```

parul 11/06/2022

@Ganesh Bagler Sir, @Mansi Goel Ma'am, We are getting the following issues in the recipes:

1) ## Recipe Name ## present at multiple places
2) Some recipes have their few cooking instructions missing
3) Cooking instructions are not well separated using (-)
4) The line Voila enjoy your recipe repeats multiple times for one of the recipes
Also, the trained GPT2 model which we used previously generated much better results than this. It raised only the second issue of missing cooking instructions for some recipes. (edited)

```
[63] randomIngredients

        'dijon mustard,msg,tea,cream chicken soup;'
```

```
[64] user_input

    '<RECIPE_START> <INPUT_START> dijon mustard <NEXT_INPUT> msg <NEXT_INPUT> tea <NEXT_INPUT> cream chicken soup <INPUT_END>'
```

```
novelRecipeGenerated

'milk <NEXT_INPUT> pepper <NEXT_INPUT> worcestershire sauce <NEXT_INPUT> mustard <INPUT_END> <TITLE_START> Slow Cooker Healthy Pea and Cream Soup<TITLE_END>
<INGR_START> 2 cups cooked peas <NEXT_INGR> 1 can cream of chicken soup <NEXT_INGR> 1 cup milk <NEXT_INGR> 2 teaspoons dry mustard <NEXT_INGR> 2 teaspoons W
orcestershire sauce <NEXT_INGR> 1 teaspoon ground pepper <NEXT_INGR> 2 teaspoons Dijon mustard <NEXT_INGR> 1 pinch dry mustard <NEXT_INGR> 2 tablespoons ins
tant instant instant coffee <INGR_END> <INSTR_START> place peas and cream of chicken soup in 12 quart slow cooker or slow cooker to prevent overcooking <TIT
LE_START> add drained chicken and milk to slow cooker and mix with mustard, worcestershire sauce, pepper, mustard, instant coffee, dry mustard and dry musta
rd <TITLE_START> pour into slow cooker and stir <TITLE_START> cover and cook on low 1 hour <TITLE_START> remove from heat, stir and serve <TITLE_START> for
more soup, you can freeze your peas  <INSTR_END> <RECIPE_END>\n<...'
```

Error 3

```
## User inputs ##
   - butter
   - black pepper
   - salt
   - carrot
   - onion
   - white sugar
   - dijon mustard
   - vegetable oil
   - cider vinegar
   - water
   - egg
   - couscous
------------------------

## Recipe Name:- ##
   - Spiced Carrot Cake

## Ingredients ##
   - 1 1/2 cups carrots,finely diced
   - 3 tablespoons butter
   - 1/2 cup onion,diced
   - 1 tablespoon cider vinegar
   - 2 teaspoons white sugar
   - 2 teaspoons Dijon mustard
   - 2 teaspoons salt
   - 1/2 teaspoon black pepper,ground
   - 1 cup uncooked couscous,divided ( if possible frozen )
   - 2 cups cold water
   - 2 eggs,slightly beaten
   - vegetable oil,for brushing

## Cooking instructions ##
   - heat oven to 375f,spray a 10inch bundt pan with vegetable oil,season with salt and pepper ; set aside
   - in a large saucepan over simmering water,cook carrots until crisptender,about 5 minutes
     remove and drain,leaving any fat behind
   - while carrots are cooking,toast the butter in a large,deep skillet over low heat ; add the
```

Thank You