June 28th

The dataset

Out[20]:

I've re-scrapped the ONS website because I saw that I was limitting the number of reports per subject.

- Now 395 unique bulletins that are usable (with main-points and datasets)
- with 2011 unique main-points
- I follow what Patrick was doing in the "Unsupervised Question Answering by Cloze Translation" paper to create our Clozes

bulletin point data type In 2019, approximate gross value **0** businessindustryandtrade/business/businessserv... date_and_percent [/businessindustryandtrade/business/businessse... added at basi... The non-financial services sector, 1 businessindustryandtrade/business/businessserv... date_and_percent [/businessindustryandtrade/business/businessse... which accou... Total turnover and purchases of the 2 businessindustryandtrade/business/businessserv... date_and_percent [/businessindustryandtrade/business/businessse... UK non-fin... Out of the 12 UK regions, 8 regions 3 businessindustryandtrade/business/businessserv... date and percent [/businessindustryandtrade/business/businessse... experience... West Midlands, Yorkshire and The 4 businessindustryandtrade/business/businessserv... date_and_percent [/businessindustryandtrade/business/businessse... Humber, Scotl...

Generating CLOZES

Here I show a few samples from our Cloze generation process:

ORIGINAL TEXT:

In 2019, approximate gross value added at basic prices (aGVA) of the UK non-financial business economy was estimated to be £1,313.9 billion; an increase of £42.8 billion (3.4%) compared with 2018.

CLOZES:

0. In TEMPORALMASK, approximate gross value added at basic prices (aGVA) of the UK non-financial business economy was estim ated to be £1,313.9 billion; an increase of £42.8 billion (3.4%) compared with 2018.

- 1. In 2019, approximate gross value added at basic prices (aGVA) of the UK non-financial business economy was estimated to be NUMERICMASK; an increase of £42.8 billion (3.4%) compared with 2018.
- 2. In 2019, approximate gross value added at basic prices (aGVA) of the UK non-financial business economy was estimated to be £1,313.9 billion; an increase of NUMERICMASK (3.4%) compared with 2018.
- 3. In 2019, approximate gross value added at basic prices (aGVA) of the UK non-financial business economy was estimated to be £1,313.9 billion; an increase of £42.8 billion (NUMERICMASK) compared with 2018.
- 4. In 2019, approximate gross value added at basic prices (aGVA) of the UK non-financial business economy was estimated to be £1,313.9 billion; an increase of £42.8 billion (3.4%) compared with TEMPORALMASK.

ORIGINAL TEXT:

The biggest component of services imported into NUTS1 areas was travel, as it received 28% (£50.6 billion) of UK total impo rts of services (£180.9 billion).

CLOZES:

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- 1. The biggest component of services imported into NUTS1 areas was travel, as it received 28% (NUMERICMASK) of UK total imp orts of services (£180.9 billion).
- 2. The biggest component of services imported into NUTS1 areas was travel, as it received 28% (£50.6 billion) of UK total i mports of services (NUMERICMASK).

ORIGINAL TEXT:

In the UK, 14.1% of people reported struggling to make ends meet in 2017, below the EU-28 average of 21.6%, and one-fifth r eported that they were "very satisfied" with their household income in 2018, above the EU-28 average.

CLOZES:

0. In the UK, NUMERICMASK of people reported struggling to make ends meet in 2017, below the EU-28 average of 21.6%, and on e-fifth reported that they were "very satisfied" with their household income in 2018, above the EU-28 average.

- 1. In the UK, 14.1% of people reported struggling to make ends meet in TEMPORALMASK, below the EU-28 average of 21.6%, and one-fifth reported that they were "very satisfied" with their household income in 2018, above the EU-28 average.
- 2. In the UK, 14.1% of people reported struggling to make ends meet in 2017, below the EU-28 average of NUMERICMASK, and on e-fifth reported that they were "very satisfied" with their household income in 2018, above the EU-28 average.
- 3. In the UK, 14.1% of people reported struggling to make ends meet in 2017, below the EU-28 average of 21.6%, and NUMERICM ASK reported that they were "very satisfied" with their household income in 2018, above the EU-28 average.
- 4. In the UK, 14.1% of people reported struggling to make ends meet in 2017, below the EU-28 average of 21.6%, and one-fift h reported that they were "very satisfied" with their household income in TEMPORALMASK, above the EU-28 average.

ORIGINAL TEXT:

General government saw a decrease in its net borrowing position to £59.7 billion in Quarter 4 which equates to 11.0% of GDP

CLOZES: 0. General government saw a decrease in its net borrowing position to NUMERICMASK in Quarter 4 which equates to 11.0% of GD

- 1. General government saw a decrease in its net borrowing position to £59.7 billion in TEMPORALMASK which equates to 11.0% of GDP compared to 12.9% in Quarter 3.
- 2. General government saw a decrease in its net borrowing position to £59.7 billion in Quarter 4 which equates to NUMERICMA
- 3. General government saw a decrease in its net borrowing position to £59.7 billion in Quarter 4 which equates to 11.0% of
- 4. General government saw a decrease in its net borrowing position to £59.7 billion in Quarter 4 which equates to 11.0% of GDP compared to 12.9% in TEMPORALMASK.

Discussion/ Questions

compared to 12.9% in Quarter 3.

P compared to 12.9% in Quarter 3.

SK of GDP compared to 12.9% in Quarter 3.

GDP compared to NUMERICMASK in Quarter 3.

- The Clozes generated are quite similar, why wouldn't our model learn to treat them all the same?
- How can we force the model to USE the data, and not learn to regurgitate some numbers back?
- What language models should I be looking into? distilBert, and bert-like?
- I need to better understand how to handle datasets, since each dataset has 3-4 sheets/pages within it.
 - Would it be smart to build a "detection" system to identify the most appropriate sheet?
- Is it time to rethink what the dissertation's main tasks should be? Pasquale suggested this can be an attempt to make a new dataset?