10월 20일

OpenBookQA에 대해서 실험을 진행하면서

2번 코드 완성하기 → 토, 월

Dense Retrieval of Knowledge Graphs for Question Answering

Original Cycle count

1. aggr_out(1차원)대신 cycle count를 그대로 넣기

- seed0(20231019_140102)
- seed1(20231019_140147)
- seed2(20231019_140211)

→ 학습 안됨

2. aggr_out(1차원)대신 cycle count를 넣고 차원 확장 후 MLP를 돌려서 넣기(9차원)

- seed0(20231019_140340)
  - dev : 70, test : 71.6
- seed1(20231019_140432)
  - dev : 71, test : 71
- seed2(20231019_140530)
  - dev : 70.6, test : 71.4

dev : 70.53(**±0.41), test : 71.33(±0.25)**

3. aggr_out(1차원)대신 cycle count를 넣고 차원 확장 후 MLP를 돌려서 넣기(5차원)

- seed0(20231019_140659)
  - dev : 71.6, test : 70.8

- seed1(20231019_140741)
    - dev : 70.6, test : 69.4
- seed2(20231019_140823)
    - dev : 69, test : 69.8

dev : 70.4(**±1.07), test : 70(±0.59)**

4. [aggr_out; 차원 확장한 cycle count] 를 MLP에 돌려서 넣기(9+1 = 10차원) → 일어나서 진행하기

- seed0(20231019_235902)
    - dev : 72, test : 72.2
- seed1(20231019_235927)
    - dev : 72.2, test : 69.4
- seed2(20231020_000057)
    - dev : 71.2, test : 71.4

dev : 71.8(**±0.43), test : 71(±1.18)**

New Cycle count

1. aggr_out(1차원)대신 cycle count를 그대로 넣기

- seed0(20231020_054428)
    - dev : 70.6, test : 71.8
- seed1(20231020_054537)
    - dev : 70.4, test : 72.8
- seed2(20231020_054611)
    - dev : 70.8, test : 69.8

dev : 70.6(**±0.16), test : 71.47(±1.25)**

2. aggr_out(1차원)대신 cycle count를 넣고 차원 확장 후 MLP를 돌려서 넣기(9차원)

- seed0(20231020_054737)

    - dev : 69, test : 67.4
- seed1(20231020_054814)
    - dev : 71, test : 70
- seed2(20231020_054849)
    - dev : 70.6, test : 70.2

dev : 70.2(**±0.86), test : 69.2(±1.28)**

3. aggr_out(1차원)대신 cycle count를 넣고 차원 확장 후 MLP를 돌려서 넣기(5차원)

- seed0(20231020_090647)
    - dev : 70.8, test : 71.4
- seed1(20231020_090716)
    - dev : 73.4, test : 73
- seed2(20231020_091135)
    - dev : 71.4, test : 71

dev : 71.87(**±1.11), test : 71.8(±0.86)**

4. [aggr_out; 차원 확장한 cycle count] 를 MLP에 돌려서 넣기(9+1 = 10차원) → 일어나서 진행하기

- seed0(20231020_091512)
    - dev : 70.8, test : 71.4
- seed1(20231020_091554)
    - dev : 69.2, test : 70.6
- seed2(20231020_091614)
    - dev : 70.6, test : 71.6

dev : 70.2(**±0.71), test : 71.2(±0.43)**

Random Number

1. aggr_out(1차원)대신 random count를 그대로 넣기

- seed0(20231020_144347)

    - dev : 69.6, test : 69.8
- seed1(20231020_144418)
    - dev : 66.6, test : 67.4
- seed2(20231020_144441)
    - dev : 69.4, test : 71.2

dev : 68.53(**±1.37), test : 69.47(±1.57)**

2. aggr_out(1차원)대신 random count를 넣고 차원 확장 후 MLP를 돌려서 넣기(9차원)

- seed0(20231020_144728)
    - dev : 68.6, test : 67.8
- seed1(20231020_144801)
    - dev : 71.6, test : 71.4
- seed2(20231020_144821)
    - dev : 71.6, tedt : 70

dev : 70.6(**±1.41), test : 69,73(±1.48)**

3. aggr_out(1차원)대신 random count를 넣고 차원 확장 후 MLP를 돌려서 넣기(5차원)

- seed0(20231021_112224)
    - dev : 64, test : 65.4
- seed1(20231021_112311)
    - dev : 71.2, test : 72
- seed2(20231021_112338)
    - dev : 70.8, test : 69.8

dev : 68.67(**±3.30), test : 69.07(±2.74)**

4. [aggr_out; 차원 확장한 random count] 를 MLP에 돌려서 넣기(9+1 = 10차원)

- seed0(20231021_145330)

    - dev : 69.4, test : 69.8
- seed1(20231021_112523)
    - dev : 69.4, test : 68.8
- seed2(20231021_112555)
    - dev : 71, test : 70.8

dev : 69.93(**±0.75), test : 69.8(±0.82)**

Degree count

1. aggr_out(1차원)대신 degree count를 그대로 넣기

- seed0(20231022_102229)
    - dev : 70.2, test : 72
- seed1(20231022_102322)
    - dev : 72, test : 71.4
- seed2(20231022_102346)
    - dev : 70.2, test : 70.4

dev : 70.8(**±0.85), test : 71.27(±0.66)**

2. aggr_out(1차원)대신 degree count를 넣고 차원 확장 후 MLP를 돌려서 넣기(9차원)

- seed0(20231022_102600)
    - dev : 73.6, test : 72
- seed1(20231022_102634)
    - dev : 69.4, test : 67.2
- seed2(20231022_102658)
    - dev : 71.2, test : 70.6

dev : 71.4(**±1.72), test : 69.93(±2.02)**

3. aggr_out(1차원)대신 degree count를 넣고 차원 확장 후 MLP를 돌려서 넣기(5차원)

- seed0(20231022_102828)

    - dev : 71.6, test : 72.4
- seed1(20231022_102916)
    - dev : 68.2, test : 68.8
- seed2(20231022_102942)
    - dev : 68.8, test : 67.8

dev : 69.53(**±1.48), test : 69.67(±1.98)**

4. [aggr_out; 차원 확장한 degree count] 를 MLP에 돌려서 넣기(9+1 = 10차원)

- seed0(20231022_134526)
    - dev :68.2 , test : 69.2
- seed1(20231022_134555)
    - dev : 70.2, test : 70.6
- seed2(20231022_134858)
    - dev : 65.4, test : 64.8

dev : 67.93(**±1.97), test : 68.2(±2.47)**