Bitna Keum

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RESEARCH INTERESTS: NLP, Dialogue Model, Personalized Conversation, LLM

EDUCATION

- **Konkuk University** — 2022. 03. – 2024. 02. (*Expected*)
  Master's course, Department of Artificial Intelligence (**GPA:** 4.35 / 4.5) — *Seoul, South Korea*
- **Kwangwoon University** — 2017. 03. – 2022. 02.
  Bachelor of Engineering, Department of Computer & Information Engineering (**GPA:** 4.16 / 4.5) — *Seoul, South Korea*

PUBLICATIONS

- **Domestic Journals**
  [1] **Bitna Keum**, Hongjin Kim, Jinxia Huang, Ohwoog Kwon, and Harksoo Kim, "**Improved Open-Domain Conversation Generative Model via Denoising Training of Guide Responses**", *Journal of KIISE*, vol. 50, no. 10, pp. 851-858, 2023. (DOI: 10.5626/JOK.2023.50.10.851)

- **Domestic Conferences**
  [1] **Bitna Keum**, Hongjin Kim, Jinxia Huang, Ohwoog Kwon, and Harksoo Kim, "**Generative Model Utilizing Multi-Level Attention for Persona-Grounded Long-Term Conversations**", *Proceedings of the 35th Annual Conference on Human and Cognitive Language Technology*, pp. 281-286, 2023.
  [2] Sangmin Park, Yuri Son, **Bitna Keum**, Hongjin Kim, Harksoo Kim, and Jaieun Kim, "**Reference-based Utterance Generation Model using Multi-turn Dialogue**", *Proceedings of the 34th Annual Conference on Human and Cognitive Language Technology*, pp. 88-91, 2022.
  [3] **Bitna Keum**, Hongjin Kim, Sangmin Park, Jaieun Kim, Jinxia Huang, Ohwoog Kwon, and Harksoo Kim, "**Noised Guide-based Generative Model for Open-domain Conversation**", *Proceedings of the 34th Annual Conference on Human and Cognitive Language Technology*, pp. 82-87, 2022.

WORK EXPERIENCES

- **Internship at TUNiB Inc.** — 2021. 07. – 2022. 01.
  – Collect an enormous amount of data for a Korean large language models — *Gangnam-gu, Seoul*
  – Implement and deploy persona-based chatbot services
  – Participate in NLP task competitions
- **Internship at GNC Solution Co., Ltd.** — 2019. 09. – 2020. 02.
  – Build a foundation in deep-learning and NLP — *Songpa-gu, Seoul*

RESEARCH EXPERIENCES

- **Personalized and Knowledge-based Chatbot using LLM**　　　　2023. 09. – *Present*
  Graduate Research Assistant, Konkuk University　　　　　　　　　　　　　*SALTLUX*
  - Research on a chatbot that responds based on persona or knowledge according to dialogue context
  - Create seed data to be used with Self-Instruct to construct training dataset
  - Utilize dialogue state tracking for user-customized recommendations and question-answering
- **Research on a Chatbot Model with Long-Term Memory Capacity**　　2023. 01. – 2023. 10.
  Graduate Research Assistant, Konkuk University　　　　　　　　　　　　　　　*ETRI*
  - Commissioned R&D project aiming to create a persona-based chatbot using long-term memory
  - Employ multi-level attention, persona classification for reference, and multi-task learning to enhance the ability to reflect persona in responses
  - Propose a methodology for constructing data to enhance long-term conversational ability

AWARDS AND HONORS

- **Best Paper Award**　　　　　　　　　　　　　　　　　　　　　　2023. 10
  The 35th Annual Conference on Human and Cognitive Language Technology　　　*KIISE*
  - 'Generative Model Utilizing Multi-Level Attention for Persona-Grounded Long-Term Conversations'
- **Best Paper Award**　　　　　　　　　　　　　　　　　　　　　　2022. 10
  The 34th Annual Conference on Human and Cognitive Language Technology　　　*KIISE*
  - 'Noised Guide-based Generative Model for Open-domain Conversation'
- **Research Excellence Scholarship**　　　　　　　　　　　2023. 10,　2022. 10
  - Scholarship awarded to students with outstanding research abilities　*Konkuk University*
- **President's Award**　　　　　　　　　　　　　　　　　　　　　2021. 12.
  AI GRAND CHALLENGE Competition – Threat Conversation Detection Task　　　*IITP*
- **President's Award**　　　　　　　　　　　　　　　　　　　　　2021. 12.
  AI Utilization Ideas Competition　　　　　　　　　　　　　*Kwangwoon University*
  - 'Clothing Pattern Synthesis Program Utilizing GAN'

EXTRACURRICULAR ACTIVITY

- **Teaching Assistant**　　　　　　　　　　　　　　　　　2023. 09. – 2023. 12.
  - In the Machine Learning class　　　　　　　　　　　　　*Konkuk University*
- **Research for Undergraduate Students Program Mentor**　　2023. 09. – 2023. 12.
  - Assist an undergraduate student in research and paper writing　*Konkuk University*
- **Data Creator Camp Mentor**　　　　　　　　　　　　　　2023. 09. – 2023. 10.
  - Participate as a mentor in the image classification hackathon　*K-ICT Big Data Center*
- **Coding School Tutor**　　　　　　2021. 07.,　2021. 02.,　2021. 01.,　2019. 01.
  - Coach students in C & Python programming practices　　　*Kwangwoon University*

SKILLS

- **Programming Language:** Python (Skilled), C, Java, SQL
- **Deep Learning Framework:** PyTorch, Tensorflow