Wongyung Nam

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OBJECTIVE

Machine learning engineer with experience using language models and generative AI models in solving diverse Natural Language Processing challenges. Proficient in prompt engineering and experienced in MLOps utilizing AWS services.

PUBLICATIONS

- Nam, W., & Jang, B. (2023). A survey on multimodal bidirectional machine learning translation of image and natural language processing. Expert Systems with Applications, 121168.
- Nam, W., Lee J., & Jang, B. (2022). Text Summarization of Dialogue based on BERT. Journal of the Korea society of computer and information, Vo.27 No.8

EDUCATION

Yonsei University   **Seoul, South Korea**
Master of Science in Information Systems(Data Science)   *March 2022 - February 2024*

Course Including: Deep Reinforcement Learning, Deep Learning for Natural Language Processing, Machine Learning for Financial Engineering, Natural Language Processing, Statistical Analysis and Application, IoT Analytics and AI, Machine Learning Basics, Bigdata Analytics and Application

Sangmyung University   **Seoul, South Korea**
Bachelor of Business Administration   *March 2010 – February 2016*

TECHNICAL SKILLS

Deep Learning: Pytorch, LLM(GPT, Llama, Titan), HuggingFace, LangChain
MLOps: Git, Docker, Airflow, AWS(S3, EC2, Sagemaker, Bedrock, ChromaDB, MongoDB, MariaDB, Azure
Programming Language: Python, R, SQL

WORK EXPERIENCE

AI Engineer
Bioresearch AI, Seoul, South Korea   *September 2023 - January 2024*

- Developed transformer model based classifier that categorizes drug name, therapeutic area, subject of healthcare industry articles. Achieved the accuracy over 95% for each classifier
- Created and stored a profile in database using extracted information in consist of Mechanism of Action, drug name, therapeutic area, target about clinical, pre-clinical R&D by utilizing GPT API
- Fine-tuning pre-trained language models using API for GPT and AWS Bedrock for Llama and Titan
- Designed an algorithm that identifies duplicate articles by measuring the similarity of articles collected by crawling from various sources
- Built a streamlined pipeline for text embedding, similarity calculation and duplicate removal using a pre-trained transformer model with clinical vocabulary sourced from Huggingface
- Enhanced the quality of Chatbot responses by implementing Retrieval-Augmented Generation (RAG) using Cohere Reranker to retrieve the accumulated articles in the database
- Used AWS SageMaker to deploy designed algorithms and deep learning models
- Collaborated with team of data engineers to build a database in MariaDB and ChromaDB by vectorizing the crawled text data.

Associate of Compliance and Inside Sales
A First Korea, Seoul, South Korea   *Jun 2019 - November 2021*

- Managed manufacturing factory to follow buyer's sustainability policy and programs which was conducted by related organization such as SAC, Better Work
- Monitored the assessment result of factories to follow them fair policy of local and international regulations
- Analyzed sales data and built dashboard with Tableau

Intern of Underwriting Department
United Merchant Service Inc., New Jersey, US   *November 2016 - November 2017*

- Reviewed merchant credit, type of business and financial statements of business based on bank guideline
- Set up payment method, card processing fee by credit or debit card and loyalty per account
- Communicated with relevant department, Acquirer and bank to resolve issue related to account opening