Suyeol Oh

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PROFILE

Natural Language Processing Engineer with experience in data mining, machine learning, and artificial intelligence. Proven ability to develop algorithms and models that can understand and analyze structured and unstructured data.

WORK EXPERIENCE

VAIV *(formerly Daumsoft)*, Seoul, Korea   (04/2019 - Current)

Senior Manager

• Lead the analysis part of the Technology Strategy Team
  @VAIV   (04/2023 - Current)
    #Data Analysis, #Machine Learning, #Natural Language Processing

ML Engineering Manager

• Manage the project to build integrated data and analysis for diplomatic missions
  @Ministry of Foreign Affairs   (07/2022 - 03/2023)
    #Hadoop Ecosystem (HDFS, HBase, Solr), #NER (Named Entity Recognition)

• Managed the project to develop an issue tracking system
  @National Research Council   (04/2022 - 06/2022)
  - Packaged software into standardized units for development and deployment
  - Comparison of similarities between past and current issues
    #Docker, #LDA (Topic modeling)

ML Engineer

• Analyzed solutions for Digital Evidence Integrated Analysis Platform
  @Supreme Prosecutors' Office   (01/2022 - 03/2022)
    #GraphDB, #Data Pipeline, #Monitoring

• Responsible for training on WPS Analytics *(Altair Solution)*   (08/2021 - 12/2021)
    #Workflow, #IDE (SAS, Python, R, SQL)

• Developed an EWS to extract emerging issue
  @National Research Council   (03/2021 - 07/2021)
  - Applied the Early Warning System to unstructured data using numerical models
    #EWS (Early Warning System), #Extracting Associate Word

- Built a bond accident prediction model
  @Lotte Confectionery (12/2020 - 02/2021)
  - Predicted a bond accident (Achieved 90% accuracy)
    #EDA (Exploratory Data Analysis), #Gradient Boosting, #Prediction

- Responsible for a legal QA engine with the concept of MRC
  @ETRI (Electronics and Telecommunications Research Institute) (06/2020 - 12/2020)
    #QA (Question Answering), #MRC (Machine Reading Comprehension)

- Developed document classifier and text summarization with BERT
  @National Assembly Library (06/2020 - 12/2020)
  - Built a model that classifies news by standing committee
  - Extract key sentences in a document using transformer model
    #BERT (Pre-training, Fine-tuning), #Text Classification, #Text Summarization

- Developed a user profiler using social media *(Blog, Instagram)* (02/2020 - 05/2020)
  - Built a model that classifies gender and age through social media data
    #Web Crawling, #Random Forest Classifier

- Developed a personalized news recommendation service
  @National Assembly Library (06/2019 - 01/2020)
  - Implemented a pdf parser to extract text data
  - Analyzed millions of news related to bills introduced by the National Assembly
    #TextRank (PageRank), #Network Analysis, #Clustering, #Recommendation

KDB Bank *(Korea Development Bank)*, Asan, Korea (04/2018 - 08/2018)

 Intern *@Corporate Finance Department*
- Assisted corporate credit rating and credit approval review
  - Understanding of corporate finance business of government-owned banks
    #Corporate Finance, #Loan, #Credit Rating

EXTRA EXPERIENCE

Real Value *(Real Estate Valuation Startup)* (03/2021 - 02/2022)

 Co-Founder & CDO *(Chief Data Officer)*
- Selected as a government-support startup business *(Grants $50K)*
- Selected as a D-Testbed project operator by the Financial Services Commission
- Built a credit rating enhancement model *(D-Testbed Project)*
- Built integrated DB and vacancy rate prediction model for commercial property
    #AWS (EC2, RDS, VPC, Lambda), #QGIS

EDUCATION

MBA. Digital Finance (concentration: AI, Data science), *KAIST*   (2021 - 2023)
Bachelor of Business Administration, *Sunmoon Univ.*   (2011 - 2018)
Cheongshim International Academy   (2007 - 2010)

INDEPENDENT EDUCATION

Bigdata Technology Course with Hadoop Ecosystem, *SBA (Seoul Business Agency)*   (08/2022 - 09/2022)
AI & Machine Learning Track in Digital Finance Mastership Program, *KAIST*   (09/2020 - 12/2020)
AI Financial Service Development Course, *KPC (Korea Productivity Center)*   (09/2018 - 02/2019)

SELECTED SKILLS

Industry Knowledge:	Natural Language Processing, Machine Learning, Data Mining, Finance
Programing:	Python
Framework (Library):	Flask, Scikit-Learn, TensorFlow, BERT, Hadoop
Environment:	Linux, AWS, Docker
Tooling:	Git, Visual Studio Code
Database:	Oracle, MySQL, PostgreSQL, Tibero
ETC:	Notion, Slack

CERTIFICATIONS

Bloomberg Market Concepts (BMC)   (08/2021)
Big Data Analysis Engineer   (07/2021)
Google Certified TensorFlow Developer   (08/2020)

PATENTS

Bicycle Locking Device and Method for Operating Bicycle Locking Device
Korean Patent No. 10-1936515   (07/2017)
Apparatus and Method for Controlling of Smart Lock
Korean Patent No. 10-1815182   (12/2016)