# Junmyeong **Lee**

ML ENGINEER

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## Education

### GIST(Gwangju Institute of Science and Technology)

*Gwangju, South Korea*

B.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

*Mar. 2018 - Current*

- TGPA : 4.13 / 4.5
- Relevant coursework : Data structure, Introduction to Algorithm, Basic Statistics and Probability, Machine learning and deep learning
- Got a National Graduate Science&Technology Scholarship from 2020, which is given to promising students
- Got a Academic Excellence Scholarship every semesters from GIST College.

### Boston University

*Massachusetts, USA*

EXCHANGE STUDENT OF SUMMER SEMESTER

*Jun– Aug 2019*

- Summer Session, GPA : 4.0 / 4.0

## Skills

| | |
|---|---|
| **Working Knowledge of** | Python, MATLAB, PyTorch, Docker, OpenCV |
| **Familiar with** | LaTex, Keras, git |
| **Basic Knowledge of** | C, C++, HTML |
| **Language Proficiency** | Korean(native) , English(intermediate) |

## Work Experience

### Visual AI Lab, GIST

*Gwangju, S.Korea*

RESEARCH INTERN

*Feb.2023-*

- Conducting research on 3D human avatar canonicalization and relighting

### VoyagerX

*Seoul, S.Korea*

ML ENGINEER

*Aug. 2021 - Dec. 2022*

- Optimized on-device AI model inference for mobile scanner apps using TFLite, CoreML, and ONNX
- Designed an efficient data collection pipeline utilizing computer vision algorithms, such as template matching
- Developed a realistic document image data synthesis process based on the noise model of smartphone photography
- Created a vision-based AI model to handle document data for smartphone-captured photos, including document dewarping and layout analysis

### NAVER Corp. Search CIC

*Seongnam, S.Korea*

RESEARCH INTERN

*Jan. 2021 - May. 2021*

- Conducted research on performance improvement of deep matching model
- Conducted experiments to optimize dense vector retrieval in large-scale data environment

### Visual AI Lab, GIST

*Gwangju, S.Korea*

RESEARCH INTERN

*May. 2020 - Jan. 2021*

- Reviewed and implemented the latest deep learning-based super-resolution architectures
- Conducted research on feature-driven super-resolution models for depth completion

## Extracurricular Activity

### JunmyeongBot : Chatbot for conversation

PERSONAL PROJECT

- Make a Telegram chatbot for natural conversations with users
- Fine-tune KoGPT2 to make generation conversation chatbot using huggingface & PyTorch
- Create Inference API for serving language model using TorchServe & AWS platform

### Refine deep learning SR architecture

PERSONAL PROJECT

- Re-implement the proposed deep learning super-resolution architecture, SRFeat
- Using the latest architecture and new training scheme, achieved significant performance improvement