

# Esther Sun Young CHOI

## Machine Learning Engineer

Applying for a LLM Engineer position  
starting in August 2025

📍 Seoul, South Korea  
☎ 010 9800 7334  
@ esther.choi.0708@gmail.com  
💻 esychoi.github.io/  
🐙 GitHub/esychoi  
in LinkedIn/esychoi

## WORK EXPERIENCE

### SEPTEMBER 2023 -

Surromind (Seoul, South Korea)

*Machine Learning Engineer*

Software Development, R&D, LLMs, Time Series Analysis

### MARCH 2023 - AUGUST 2023

Surromind (Seoul, South Korea)

*Intern*

Software Development, Time Series Analysis

## EDUCATION

### 2021 - 2023

Sorbonne  
University  
Paris, France

#### MSC DATA SCIENCE

*Machine Learning, Deep Learning, Computer Vision, NLP, Databases*

### 2018 - 2021

Sorbonne  
University  
Paris, France

#### BSC DOUBLE MAJOR IN MATHEMATICS AND COMPUTER SCIENCE

*Data Structures and Algorithms, Databases, Logic, Probabilities, Calculus, Algebra*

## COMPUTER SKILLS

PROGRAMMING	Python, SQL, C, JAVA
FRAMEWORKS	PyTorch, Tensorflow, Transformers, FastAPI
DATABASES	MySQL, Milvus
TOOLS	Git, Docker

## COMMUNICATION SKILLS

FRENCH	Native speaker
KOREAN	Native speaker, bilingual
ENGLISH	Proficient, CAE 182 pts

## STRENGTHS

- Quick learner with good grasping ability.
- Action-oriented and result-focused.
- Easily collaborate with team members.
- Logical but creative thinking.

## PROJECTS

### LLM BASED TRANSLATION (JAN 2025-)

- **LLM based translation** from English to French in **Healthcare** domain using specifically curated dictionary
- *Topics : LLM, Machine Translation, Prompt engineering*
- *Tech : Python, OpenAI, NLTK, FastAPI*

### AI DIGITAL TEXTBOOK (JUN-SEP 2024)

- **LLM** powered English **digital textbook** for Korean elementary school students
- Development of a **chatbot** to answer digital textbook FAQs
- *Topics : Text embedding, Vector Search*
- *Tech : Python, Transformers, NLTK, FastAPI*

### AI EXCAVATOR (FEB 2025-)

- Deep Learning based **excavator** bucket **trajectory generation**
- *Topics : AI based heavy equipment, trajectory modeling*
- *Tech : Python, PyTorch, laspy*

### ROBOT ARM CONTROL (SEP 2024-FEB 2025)

- **Robotic arm** manipulation using **OpenVLA**
- *Topics : VLA models, robot, simulation*
- *Tech : Python, PyTorch, Transformers, Isaac-Gym*

### SOUND AND VIBRATION ANALYSIS (MAR 2023-JUN 2024)

- **No-code platform** for **sound and vibration data analysis** for electric cars
- Complete **MLOps** pipeline: data preprocessing, Deep Learning models training, model deployment
- *Topics : MLOps, Auto ML*
- *Tech : Python, PyTorch, FastAPI, MLflow, Ray*

## ACTIVITIES

- Member of ASCoF, the Association of Korean Scientists living in France
- Sports : Archery, Tennis, Hiking, Running
- Hobbies : Video games, Guitar

## INTERESTS

- Generative AI: LLMs, VLMs, VLAs
- Human Computer Interaction
- AI applied to other scientific fields