

Esther Sun Young CHOI

Machine Learning Engineer

Applying for a ML Engineer position starting in July 2025

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WORK EXPERIENCE

SEPTEMBER 2023 -

Surromind (Seoul, South Korea)
Machine Learning Engineer

MARCH 2023 - AUGUST 2023

Surromind (Seoul, South Korea)
Intern

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

EDUCATION

2021 - 2023

Sorbonne
University
Paris, France

MSc DATA SCIENCE

Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning, NLP, Symbolic AI, Business Intelligence, Database Systems

2018 - 2021

Sorbonne
University
Paris, France

BSc DOUBLE MAJOR IN MATHEMATICS AND COMPUTER SCIENCE

Data Structures and Algorithms, Databases, Cryptography, Logic, Automata Theory, Probabilities, Calculus, Algebra, Topology, Numerical Analysis, Functional Analysis

COMMUNICATION SKILLS

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

ACTIVITIES

- Member of ASCoF, the Association of Korean Scientists living in France
- Former board member of ALIAS, the official student association of Computer Science of Sorbonne University
- Sports : Tennis, Archery, Hiking
- Hobbies : Video games, Guitar

INTERESTS

- LLMs, VLMs, VLAs
- AI for Healthcare
- Human Computer Interaction

PROJECTS

LLM BASED TRANSLATION (JAN-MAY 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 EXCAVATOR (FEB 2025-DEC 2025)

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

ROBOT ARM CONTROL (SEP 2024-FEB 2025)

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

AI POWERED 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*

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*

COMPUTER SKILLS

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

STRENGTHS

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