Joonha Park

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Joonha Park | Voyager466920 | Voyager466920 | Voyager Labs | Voyager Labs
Seoul, Korea

About me

"Simplicity is the ultimate sophistication." A highly self-motivated developer with over 5 years of experience in Flutter and more than 2 years of AI research using PyTorch. Passionate about on-device AI, with a strong track record of leading and contributing to human-centered AI projects. Also, deeply interested in meta-learning, reinforcement learning, and few-shot learning.

Education

- **Catholic University of Korea** *Mar 2020 - Jun 2026*
  *Bachelor's Degree in **Computer Science Information Engineering***
  - GPA: 4.29 / 4.50
  - Major GPA: 4.36 / 4.50 (Credits taken: 115/130)

Papers

- **ChaosAug: Chaos applied augmentation technique for low-shot learning**
  In Preparation
- **Siamese Network-Based Contrastive Learning for Sealant Defect Detection**
  ***Joonha Park**, Siyoung Kim, Sihyung Kim, Jaehyun Cha, Wonsuk Kim, Yoojoong Kim*.*
  Accepted, to appear in ICNGC 2026
- **Robust Thermal-Image Object Detection by Explicit Background Modeling and Residual Emphasis**
  *Junwon Son, Jaehyun Cha, **Joonha Park**, Sihyung Kim, Siyoung Kim, Yoojoong Kim, Wonsuk Kim*.*
  Under Review, to appear in WACV 2026

Internships

- **Intelligent Data Analytics Laboratory** *Apr 2024 -*
  Undergraduate Researcher supervised under Prof. Y. J. Kim
  - Artificial Intelligence research based on Large Language Models
  - Artificial Intelligence research based on Computer Vision

Projects

- **<Wait, However>, LLM-based news article fact-checking app** *Mar 2025 - July 2025*
  Team Leader, Developer, Presenter [GitHub]
  - Project for Capstone Design Project
  - Trained KoElectra Model for extraction summarization.
  - Pretrained an LSTM model for translationese detection.
  - Designed a system that provides an alternative or overlooked perspective on news articles by integrating an LLM.
- **Computer Vision-based anomaly detection on the sealant factory** *Sep 2024 - Dec 2024*
  Team Member [GitHub]
  - Project for Deep Learning and Artificial Intelligence Design.
  - 2-class classification between normal and defective sealant.
  - Vision Transformer and Swin Transformer were used to detect the defect.
- **Environmental To-do App with Computer Vision-based Photo Authentication** *May 2024 - Aug 2024*
  Team Leader, Developer [GitHub]
  - Project for Google Gemini API Developer Competition.
  - Designed a system where completing tasks helps save virtual animals, promoting environmental awareness through verified actions.
  - Utilized the Gemini API to verify whether users completed their tasks using photo authentication.
- **Others**
  - **Deployed MoE-Based Small Language Model(KoRaptor) on HuggingFace** (Using PyTorch)
  - **Pretrained AnalogGPT from Scratch to understand the Transformer model** (Using PyTorch)
  - **Mood-tracker app that can burn feelings with a user-friendly UI, <SOGAK>** (Using Flutter, AppStore deployed)
  - **Movie Recommendation app based on mood, <FEELM>** (Using Flutter, AppStore deployed)
  - **Serverless to-do list app, <PLANTABIT>** (Using Flutter, AppStore deployed)
  - **Serverless Movie Note-taking app, <Ending Credit>** (Using Flutter, AppStore deployed)

PATENTS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

[P.1] **A method and an apparatus for preventing bias in news using generative artificial intelligence model**, J. H. Park, Y. J. Kang, S. E. Kim, J. Y. Kim, H. E. Lee, Korean Patent, 10-2025-0027592 (2025.03)

HONORS AND AWARDS

- **Awards**
  - Excellence Award, KAIST Counter-Disinformation Challenge (Dec 2024)
  - Grand Prize, 2024 Catholic University of Korea Hana Social Venture University Local Creator Contest (Dec 2024)
  - Excellence Award, Catholic University of Korea Media Software and Content Development Competition (Dec 2024)
- **Honors**
  - 2020 1st Semester High Honors Awarded to students with high achievements throughout the semester
  - 2020 2nd Semester High Honors Awarded to students with high achievements throughout the semester
  - 2024 2nd Semester High Honors Awarded to students with high achievements throughout the semester
  - 2025 1st Semester High Honors Awarded to students with high achievements throughout the semester

EXTRACURRICULAR ACTIVITY

- **Vice President, Instructor** *Mar 2024 - Dec 2024*
  LikeLion (가톨릭대학교멋쟁이사자처럼)
  - Vice President of Catholic University of Korea LikeLion
  - Instructor of AI ·Django, basics of AI, and how to use Django, a backend framework
  - Team leader of AI ·Django

OTHERS

- **English Proficiency**
  - TOFEL 99 (Feb 2025)
  - TOEIC SPEAKING Level 8 (Score 190; Aug 2021)
- **Certification**
  - Network Technician Level-2 (국가공인네트워크관리사 2 급; Apr 2022)
  - Computer Specialist in Spreadsheet & Database Level-1 (국가기술컴퓨터활용능력 1 급; Nov 2021)
- **Military Service** *Apr 2022 - Apr 2024*
  Republic of Korea Air Force 35th Flight Group Military Police Sergeant

SKILLS

- **Programming Languages:** Dart, Python, Java, Arduino
- **Data Science & Machine Learning:** PyTorch, Jupyter Notebook, HuggingFace
- **Frameworks & Version Control:** Flutter, Django, Git
- **Others:** Self-Taught, Communication, Problem Solving