

DILLAN IMANS

MEDICAL AI RESEARCHER

Suwon, South Korea | dillanimansbusiness@gmail.com | <https://github.com/DillanImans>

PERSONAL STATEMENT

Motivated and efficient Medical AI Researcher with hands-on experience in research labs, dedicated to developing innovative solutions for critical medical problems. Committed to precision and timely execution. Seeking to work in Medical AI to drive innovation in labs.

PROFESSIONAL EXPERIENCE

Undergraduate Research Intern @ Superintelligence Lab SKKU, South Korea **Nov 2024 - Present**

- Developed a 3D deep frequency filter module to improve domain generalization for a brain tumor segmentation dataset.
- Aim to publish a paper as the first author in MICCAI 2025.

Summer Research Intern @ Labren CUHK, Hong Kong **Jun 2024 - Jan 2025**

- Identified key challenges in the application of AI within the surgical field.
- Curated a comprehensive surgical database for the current surgical field in AI.
- Aim to publish a paper as the middle author in Nature Biomedical Engineering (2025).

Undergraduate Research Intern @ Infolab SKKU, South Korea **Feb 2024 - Oct 2024**

- Developed an innovative framework for depression classification on an imbalanced mental health dataset.
- Published a paper as the first author in Diagnostics (2024).

PUBLICATIONS

- Imans, D., Abuhmed, T., Alharbi, M., & El-Sappagh, S. (2024). Explainable Multi-Layer Dynamic Ensemble Framework Optimized for Depression Detection and Severity Assessment. Diagnostics, 14(21), 2385. <https://doi.org/10.3390/diagnostics14212385>

EDUCATION

Bachelor's of Computer Science and Engineering, Sungkyunkwan University, South Korea **Aug 2022 - Present**

- GPA: 4.07 / 4.5
- Dean's List, 2023
- Relevant Coursework: Deep Learning, AI, Linear Algebra, Probability and Statistics, Biology

RELEVANT SKILLS

| | | |
|-----------------------------|-----------------------|--------------------|
| PyTorch | Segmentation Learning | Experiment Design |
| Medical Image Preprocessing | Statistical Analysis | Scientific Writing |

ADDITIONAL INFORMATION

- Languages:** English, Mandarin, Indonesian, Korean
- Hobbies & Interests:** Piano, Basketball, Cooking
- References available upon request