DILLAN IMANS

MEDICAL AI RESEARCHER

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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 **Oct 2024 - Present**

- Developed a 3D deep frequency filter module to improve single source domain generalization for a brain tumor segmentation dataset.
- Designed AI models for clinical use, establishing a foundation for robust AI in medical imaging.
- Aim to publish a paper as the first author in MICCAI 2025.

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

- Identified key challenges in applying AI to the surgical field.
- Curated a surgical actions dataset and validated it across multiple AI experimental setups.
- Scheduled to publish a paper in *Nature BME* (Feb 2025) as a contributing author.
- Maintained active collaboration on research through to the present date.

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

- Developed an explainable multi-layer dynamic ensemble framework for depression detection and severity assessment, addressing mental health challenges.
- Highlighted potential clinical applications for early detection of depression.
- Published a paper as the first author in *Diagnostics* (Oct 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: 4.03 / 4.5
- Dean's List, 2023
- Academic Excellence Scholarship
- Relevant Coursework: Deep Neural Networks, Big Data, Linear Algebra, Probability, 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