

{% include icon.html icon="fa-solid fa-microscope"%}Research Projects Overview

Welcome to the project portfolio of **InfoLab** at **Sungkyunkwan University (SKKU)**. Our research lies at the intersection of **artificial intelligence**, **cybersecurity**, and **biomedical informatics**, with a focus on developing **robust**, **interpretable**, and **impactful** AI-driven solutions.

We focus on two core domains:

- **Biomedical AI**: Multimodal, explainable models for **early disease detection**, **patient monitoring**, and **clinical outcome prediction**.
- **Security & Behavioral AI**: Adversarially robust systems for **malware detection**, **continuous user authentication**, and **trustworthy decision-making** in high-stakes environments.

Explore the sections below to learn more about our ongoing and completed projects, key contributions, and their impact on science and society.

{% include figure.html image="images/security.png" caption="**Security and Behavioral AI Projects**" link="projects/infrastructure" width="100%" hight="95%" %}

{% include figure.html image="images/biomedical_discovery_03.png" caption="**Biomedical AI Projects**" link="projects/discovery" width="100%" %}

{% include icon.html icon="fa-solid fa-microscope"%}Funding Projects

{% include figure.html image="images/nrf-logo.png" caption="

Intelligent and Robust Clinical Decision Support System for Alzheimer Disease

Mid-Career Researcher Program by the National Research Foundation (NRF) grant funded by the Korea government (MSIP)

March 2021 – Feb. 2024

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SW-oriented College, Sungkyunkwan University

SW-oriented University Supporting Program (SW중심대학지원), IITP

April 2021 – Dec. 2026

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Towards Super Sapiens: Superintelligence for Future Human Innovations

ICT Creative Consilience program (ICT명품인재), IITP

Sep. 2021 - Dec. 2022

" link="https://iitp.kr/kr/1/business/menuZDADXpage.it" width="60%" height="130px" %}

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Artificial Intelligent-based Skin Analysis Algorithms

by Chowis Co., Ltd

Oct. 2020 - April 2021

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Software Authorship Identification Based on Deep Learning

Young Researcher Program supported by the National Research Foundation (NRF) grant funded by the Korea government (MSIP)

Nov. 2016 - Nov. 2019

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