

# **INTRODUCTION OF MAJOR**

PANN VAND ET



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# Hello,

## I'm Pann Vandet

*A Growing Researcher*

I am a passionate researcher who graduated with a Bachelor's degree in Computer Science and Information Technology at Phnom Penh International University. After completing my undergraduate studies, I gained valuable experience by working in web development field for three years. However, my thirst for knowledge and desire to delve deeper into the field led me to pursue a Master's degree. In pursuit of academic excellence, I enrolled in a renowned institution, Jeonbuk National University (JBNU), in South Korea. Currently, I am a machine learning research fellowship at National Institute of Animal Science in Korea.



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# Education

**2012-2015**

**Phnom Penh International University (PPIU)**

- Online shopping web application
  - Technology: OpenCart
  - Language used: PHP-based, MySQL
- Mini-store management system
  - Language used: VB.net, SQL server

**2019-2022**

**Jeonbuk National University (JINU)**

- Graduation thesis: A Novel Attention-Based Network for Masked Face Recognition
- Built and registered “MaskedFaceGenerator” software
- Joined two projects:
  - Built Gilsam web application system
  - Built Smart Scale mobile application system
  - Built Palm and Masked Face recognition system



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# Awards

2018.08

## National Institute for International Education

- One year for Korean study (S.Korea)
- Two years for a mater degree (S.Korea)

2015.04

## Webcash Software Scholarship

- Six months for professional programming courses  
(java programing web based programming)

2015.03

## Outstanding student awards

- Outstanding student at Phnom Penh International University

# Participations

## International & Domestic Conferences

- 6th CIGR 2024: Enhancing Pig Vocalization and Non-Vocalization Classification with DCNN and Data Augmentation (Poster)
- KAST 2023.10: Improvement of Pig Vocal and Non-Vocal Classification in Smart Livestock Farming Using Deep Learning (Poster)
- KAST 2023.07: Comparative Analysis of Audio Feature Extraction Methods for Pig Vocalization Classification Using Deep Learning (Poster)
- ACK 2021.11: Modern Face Recognition using New Masked Face Dataset Generated by Deep Learning (Paper)
- KCC 2020.07: Moving Object Detection in Video Surveillance Based on Background Subtraction and Yolov3 (Paper)

## Journal SCI(E)

- MDPI, Animals (2024.07): DCNN for Pig Vocalization and Non-Vocalization Classification: Evaluate Model Robustness with New Data
- MDPI, Applied Science (2022.05): Effective Attention-Based Mechanism for Masked Face Recognition

# Project 1

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## Project Information

This web application project uses HTML, SASS, and Javascript for front-end development and Python with the Flask framework for back-end development. It was built to manage historical places in Jeonju, South Korea.

- Project name: Gilsam
- Category: Web Design and Development
- Company: Software engineering lab (JBNU)
- Project date: January, 2020
- Backend: Python, Flask framework
- Frontend: HTML, CSS, SCSS (Sass), JavaScript, Bootstrap, etc.

Gilsam Gilsam

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### Welcome Jeonju city

마을전경

객사는 빙력을 즐미하고 숙박시키는 곳이지만 전체를 모시고 국왕에 대하여 예를 행하던 곳이며 조정의 척사가 오면 이곳에 유숙하면서 교지를 관하게도 하였고, 지방 고관이 부임하면 먼저 이곳에 들어 배례를 올렸다. 전주 해사는 대한민국의 보물 제583호로, 조선시대의 건축물이다. 조선 초 전주부성을 창건할 때 같이 지은 것으로 추정된다. 그 뒤 1473년 성종 3년에 전주부을 조근이 전주사고를 창설할 때 남은 재액으로 계속됐다는 기록이 있다. 해사는 빙력을 즐미하고 숙박시키는 곳이지만 전체를 모시고 국왕에 대하여 예를 행하던 곳이며 조정의 척사가 오면 이곳에 유숙하면서 교지를 전하기도 하였고, 지방 고관이 부임하면 먼저 이곳에 들어 배례를 올렸다.

역사

원래 전동성당 서명

본당의 처음 생겼을 때의 전주읍성 주변에 신자는 거의 없었고, 주로 산골인 대승리, 고산 되제, 천호동, 배지 등지에 신자가 밀집해 있었으나, 1894년 동학 농민 운동이 일어나는 등 여러 사건이 일어나면서 신자의 수가 급격히 증가하였다.[3] 따라서 기존의 성당보다 더 큰 성당의 필요성이 대두되었고, 이후 1908년 영동성당의 내부를 건축한 프와일 신부의 설계로 성당의 착공되었다. 성당은 1914년에 비로소 외관 공사가 끝났으며, 이후로도 계속 공사가 진행되어 19...

Read more >

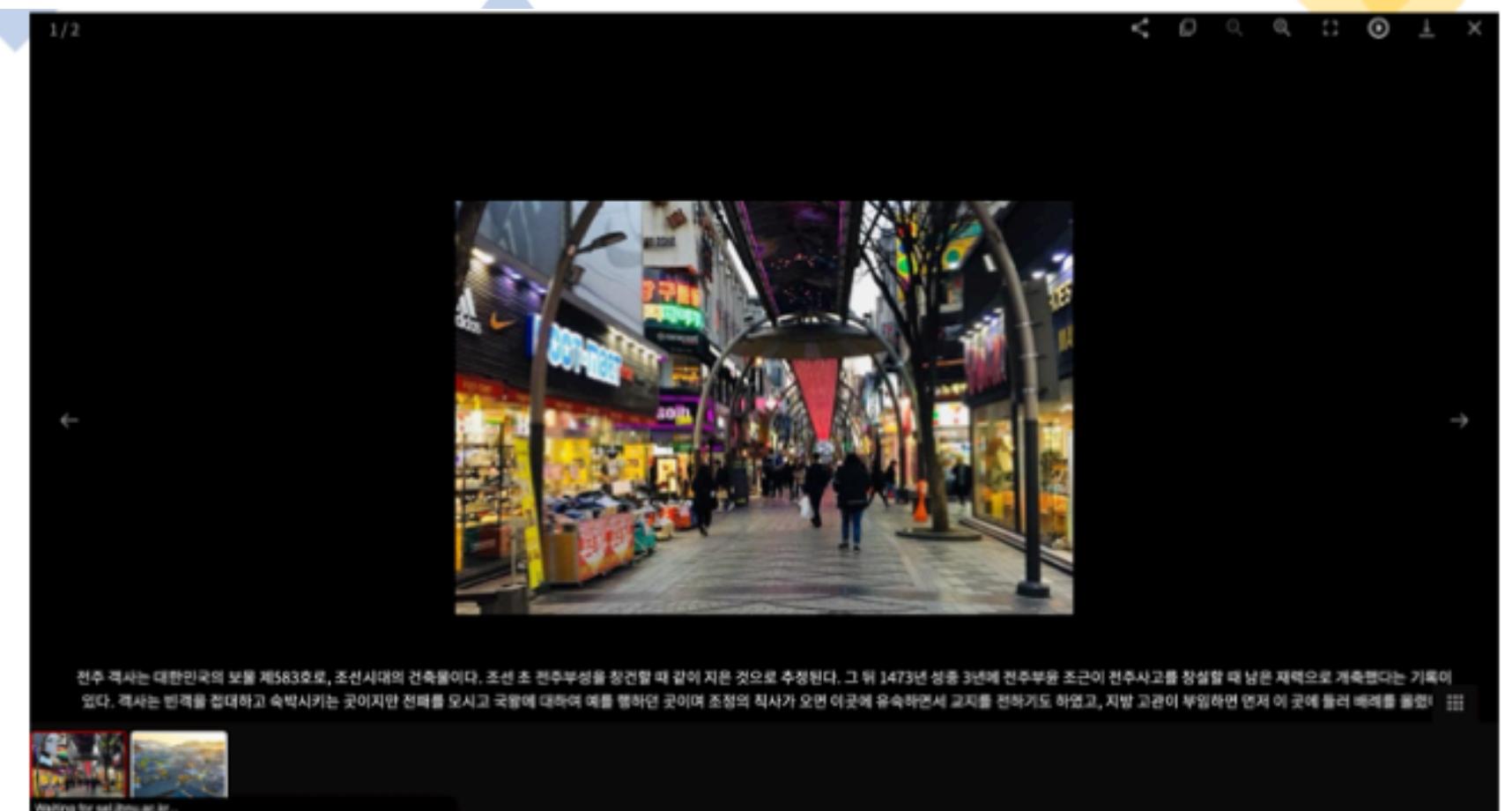
원래 전동성당 특징

Gilsam Gilsam

Ex: 도시 - 구 - 동

Jeonbuk National University  
567 Baekje-daero, Deokjin-gu, Jeonju-si, Jeollabuk-do  
4.5 ★★★★☆ 354 reviews  
View larger map

Survey Form Recorded Results



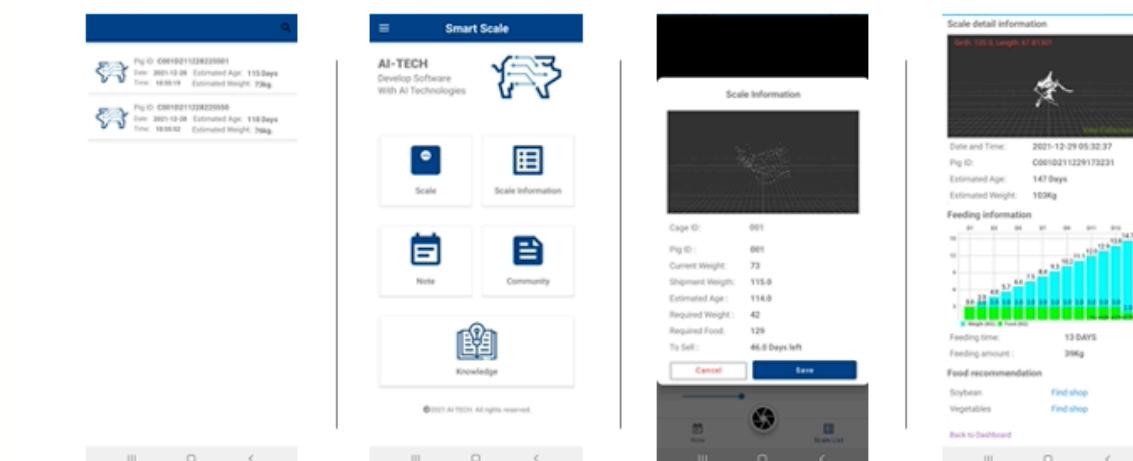
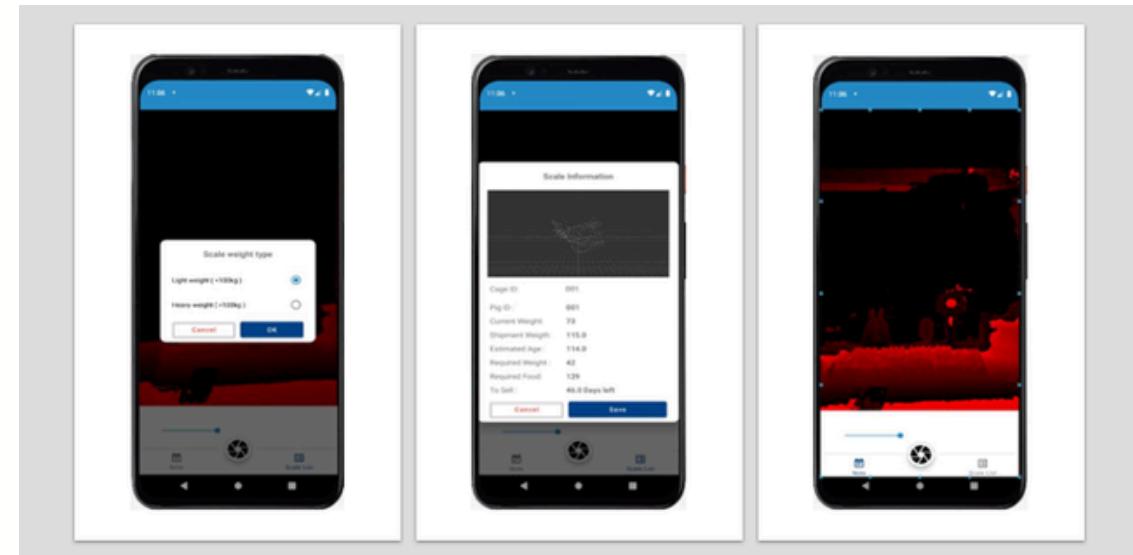
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# Project 2

## Project Information

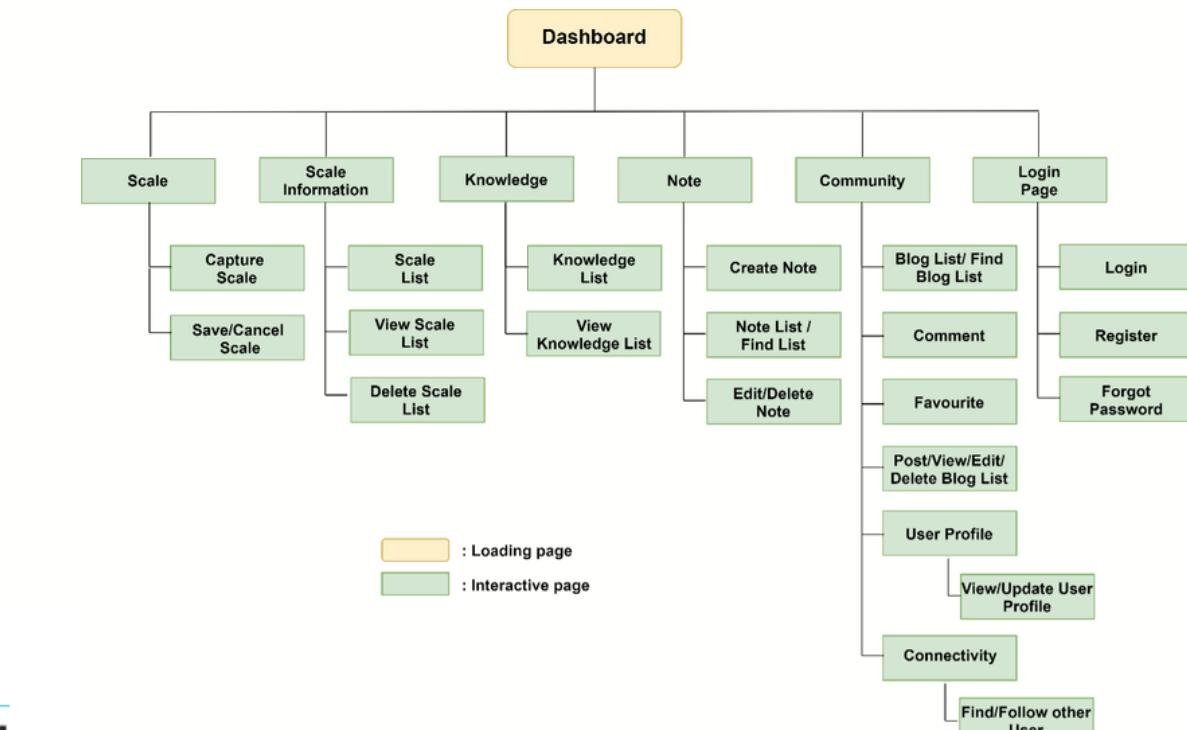
This is a mobile application project using 3D point cloud technology. This application is built to help the pigs farmer on pig scale measurement.

- Project name: Smart Scale
- Category: Mobile App Design
- Company: AI-Tech
- Project date: 01 March, 2020
- Programming language: Java for Android
- Device: Samsung Galaxy Ultra 20
- Scaling: Machine learning algorithm



Mobile application interface

## Application architecture



Data collection

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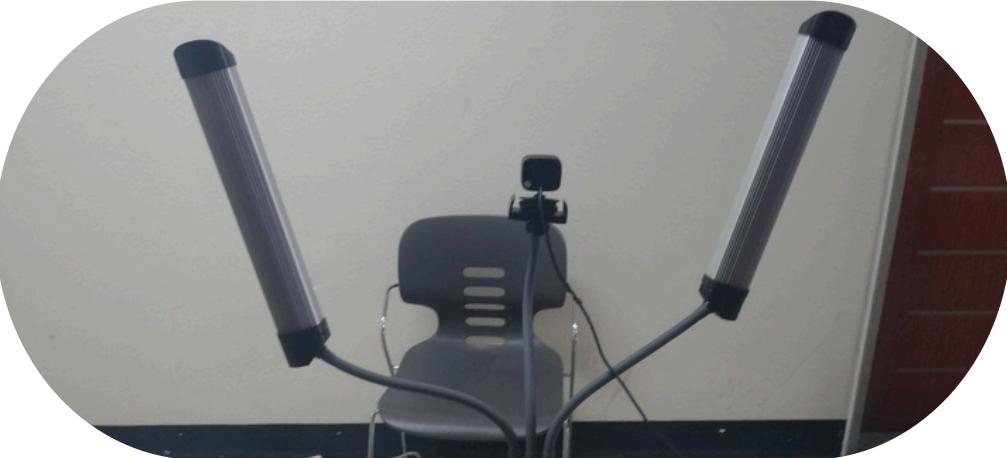
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# Project 3

## Project Information

To build Palm Vein and Masked Face recognition systems, real human palm vein and face with mask and without mask dataset were collected.

- Project name: Palm Vein and Mased Face recognition systems
- Category: Desktop application
- Company: Jeonbuk National University (JBNU)
- Project date: 2021-2022
- Programming languages: C, Python, Machine learning framework (TensorFlow)
- Device: webcam camera, palm vein capture camera, light, notebooks,



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# Others

## Work Experiences

- Present: Machine Learning Research Fellowship (National Institute of Animal Science, South Korea)
  - Working on a project titled “Research of image-based automatic pig pregnancy judgment and abnormal behavior detection technology”
  - Researching on pig vocalization classification using deep learning
  - Data collection, data preparation, and data labeling
  - Developing a robustness model and integrating it into embedded system to detect in real-time in pig farm
- 2017-2016: WEB DEVELOPER (Placepass company, Cambodia)
- 2015-2016: FRONT-END DEVELOPER (PhnomList company, Cambodia)

## Skills

- HTML, CSS, Javascript, Jquery, Database
- Python, Tensorflow, Keras, Pytorch, Java, PHP, C/C++
- CMS, WORDPRESS
- JIRA, TRELLO
- GIT, GITHUB



## Activities and Hobbies

- Workshop: 아태 역사문화도시 청년 컨퍼런스 (우수상)
- Workshop: 한국어 쓰기 대회 (우수상)
- Volunteer: 푸른 도시 환경운동본부에서 주관하는 “환경정화”라는 자원봉사 프로그램에 참여.
- Volunteer: 8 번 현혈을 했음.
- Sports: Football, Volleyball Table Tennis, Badminton, etc

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# Thank you

## Contact Details

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