CURRICULUM VITAE

Biography

Ivonia Fatima Viegas was born in Dili, Timor-Leste, on August 10, 2003, as the beloved daughter of Alberto Viegas Soares and Elisa Moniz Fatima. She is a Timorese citizen and a Catholic. She currently resides at Delta 1 Comoro, Dili, Timor-Leste. She completed her elementary education from 2010 to 2015, then continued to junior high school from 2016 to 2018, and senior high school from 2019 to 2021, majoring in Natural Sciences (IPA) at Sta. Madalena de Canossa, where she graduated in 2021. In September 2022, she began her journey to pursue a bachelor's degree in Informatics Engineering at Universitas Pendidikan Ganesha in Bali - Indonesia. Throughout her studies, she developed a deep interest and passion for artificial intelligence, digital image processing, and data analysis. As one of the requirements for obtaining her Bachelor of Computer Science degree, she wrote a thesis entitled "Mammographic Breast Cancer Detection Using ResNet-50 with Transfer Learning: A Case Study in Timor-Leste and Indonesia." Through this research, she sincerely hopes that her work may offer meaningful contributions to technology development, especially in the early detection of breast cancer, not only for the people of Timor-Leste and Indonesia but also for the wider global community.

APPENDICES

Appendix 1. Research Questionnaire Instrument

The primary data collection tool used for this research was a structured questionnaire administered to the Director of DMC (Dili). The questionnaire was designed to gather insights on the existing medical technology literacy and the potential implementation of an AI-based cancer detection application.

The questionnaire was distributed electronically via Google Forms. A direct link to the form is provided below, and a screenshot or printed copy is attached to this appendix for archival purposes.

a) Title: Research Questionnaire: "Mammographic Breast Cancer Detection Using ResNet-50 with Transfer Learning: A Case Study in Timor-Leste and Indonesia"
b) Respondent: Mr. Julio Sabino, Chief of Radiologist technician of DMC
c) Method: Google Forms
d) Full version Link:

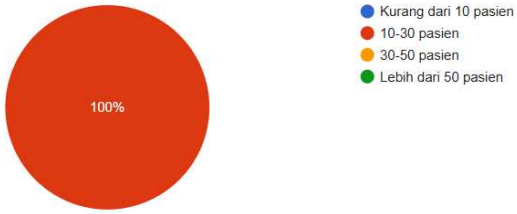
https://docs.google.com/forms/d/e/1FAIpQLSdxCYs9P0LTHYpaiB7sHyGrv45HtF5-Fj-LEqxbpowrSJwWpQ/viewform?usp=sharing

Questions Responses 1 Settings

Pertanyaan 4: Jumlah pasien mamografi yang dilayani DMC Dili per bulan (rata-rata)

Copy chart

1 response



Section 3 - SARANA DAN PRASARANA MAMOGRAFI

Pertanyaan 5: Jenis mesin mamografi yang digunakan di DMC Dili

Copy chart

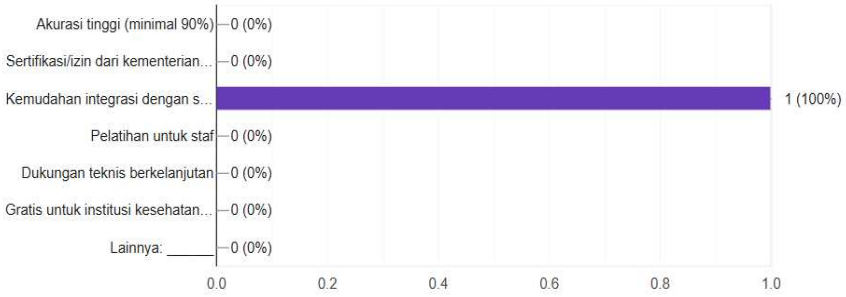
1 response

Questions Responses 1 Settings

Pertanyaan 19: Apa syarat utama yang harus dipenuhi agar DMC Dili dapat mempertimbangkan penggunaan sistem AI ini?

Copy chart

1 response

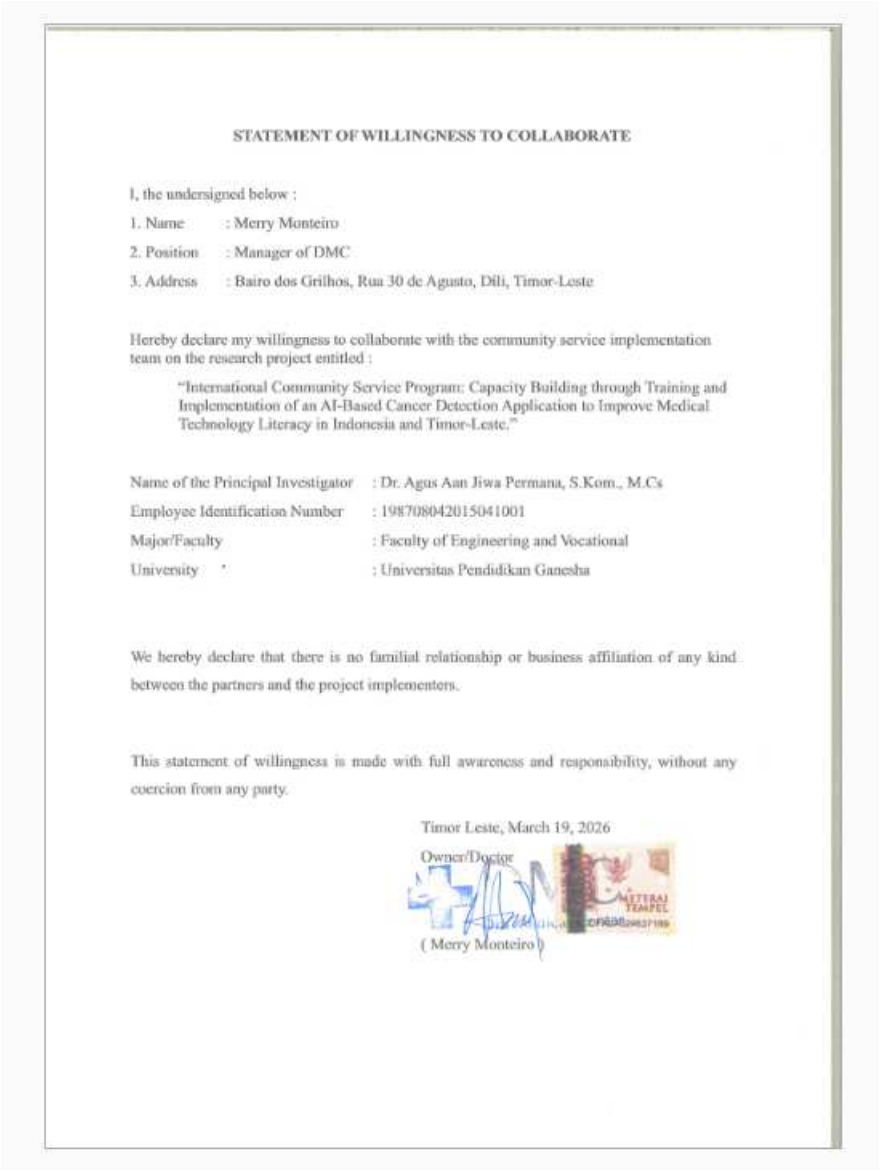


Pertanyaan 20: Apakah ada rekomendasi atau saran lain yang ingin disampaikan untuk pengembangan sistem deteksi kanker payudara berbasis AI di Timor-Leste?

0 responses

No responses yet for this question.

Appendix 2. Statement of Willingness to Collaborate



STATEMENT OF WILLINGNESS TO COLLABORATE

I, the undersigned below :

1. Name : Merry Monteiro
2. Position : Manager of DMC
3. Address : Bairo dos Grilhos, Rua 30 de Agusto, Dili, Timor-Leste

Hereby declare my willingness to collaborate with the community service implementation team on the research project entitled :

"International Community Service Program: Capacity Building through Training and Implementation of an AI-Based Cancer Detection Application to Improve Medical Technology Literacy in Indonesia and Timor-Leste."

Name of the Principal Investigator	: Dr. Agus Aan Jiwa Permana, S.Kom., M.Cs
Employee Identification Number	: 198708042015041001
Major/Faculty	: Faculty of Engineering and Vocational
University	: Universitas Pendidikan Ganesha

We hereby declare that there is no familial relationship or business affiliation of any kind between the partners and the project implementers.

This statement of willingness is made with full awareness and responsibility, without any coercion from any party.

Timor Leste, March 19, 2026

Owner/Doctor

(Merry Monteiro)

Appendix 3. Request Letter for Data Collection

KEMENTERIAN PENDIDIKAN TINGGI, SAINS, DAN TEKNOLOGI
UNIVERSITAS PENDIDIKAN GANESHA
FAKULTAS TEKNIK DAN KEJURUAN
Jalan Udayana Nomor 11 Singaraja - Bali Kode Pos 81116
Telepon (0362) 22570 Email: ftk@undiksha.ac.id Laman: http://ftk.undiksha.ac.id

Nomor : **2650**/UN48.11.1/DI.03.00/2025 Singaraja, 25 September 2025
Perihal : Surat Permohonan Pengambilan Data

Yth. Manager DMC Dili Timor-Leste
Sra. Merry Monteiro
di tempat

Dengan hormat, sehubungan dengan proses penyelesaian Tugas Akhir/Skripsi, maka melalui surat ini kami mohon Bapak/Ibu berkenan memberikan data yang terkait dengan data yang dibutuhkan. Adapun mahasiswa yang akan melakukan pengambilan data seperti tersebut di bawah ini:

Nama	:	Ivonia Fatima Viegas
NIM	:	2215101085
Program Studi	:	Ilmu Komputer
Jurusan	:	Teknik Informatika
Data yang dibutuhkan	:	Citra mamografi, Label/rotulasi klasifikasi BI-RADS, metadata teknis pemeriksaan, informasi tambahan
Judul Penelitian	:	Mammographic Breast Cancer Detection Using ResNet-50 with Transfer Learning : A Case Study in Timor-Leste and Indonesia

Demikian kami sampaikan, atas perhatian dan kerjasamanya, diucapkan terima kasih.

a.n Dekan
Wakil Dekan Bidang Akademik,

Made Windu Antara Kesiman
NIP 198211112008121001

Appendix 4. Web Application Interface Screenshots

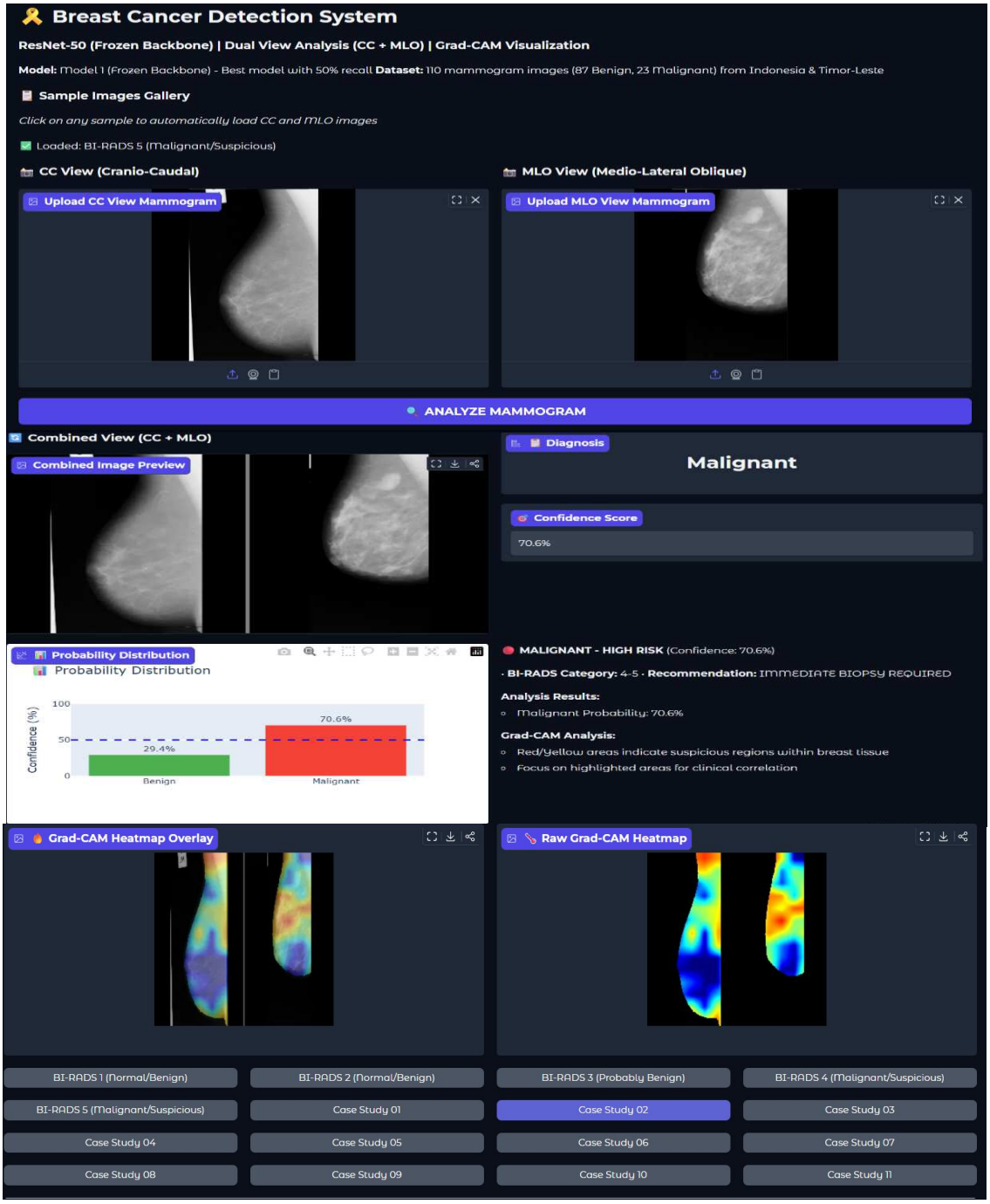


Figure 4.1.
Web Application Interface – Image upload and Prediction Output with Grad-CAM
(Source : Author's Illustration)

Figure 4.2.
Web Application Interface – Information of the Model and Web
(Source : Author's Illustration)