

# Aeriel Nathen

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West Jakarta, Indonesia

## Summary

Accomplished AI Research Engineer with proven experience in deep learning, computer vision, and author of “Tiny vs. Tinier: Baseline ViT-Tiny vs. Ensemble-Distilled Student on Imbalanced Fracture Detection” comparing performance of both base and ensemble-distilled student model of vit-tiny, achieved top 1 MCC +0.08 on the student model

## Education

**Binus University** | GPA: 3.65/4.00 Jakarta, Indonesia  
*Bachelor of Science in Computer Science, Specialization in Intelligence Systems* Aug. 2023 – Feb 2027

## EXPERIENCE

**OJKI - Research Assistant(Internship)** Aug 2025 – Aug 2025  
*Otoritas Jasa Keuangan* Wisma mulia 2, Jakarta

- Worked as a Research Assistant at Otoritas Jasa Keuangan Institute (OJKI)

**Undergraduate Research Assistant** Jan 2025 – Present  
*Binus University* Anggrek Campus, Jakarta

- Appointed as a research member under the Penelitian Pemula Binus scheme for the project “Deep Learning for Paddy Leaf Disease Detection and Classification Using the ‘Paddy Doctor’ Dataset” supervised by Rico Halim, S.Kom., M.Kom.

## Projects & Research

**Paddy Leaf Image Classification Using EfficientNetB5 with Realistic Augmentation** July 2025 – Aug. 2025  

- Accepted at the 2025 8th International Seminar on Research of Information Technology and Intelligent Systems (ISRITI).

**Tiny vs. Tinier: Baseline ViT-Tiny vs. Ensemble-Distilled Student on Imbalanced Fracture Detection** Feb. 2025 – May 2025  

- Accepted in Procedia Computer Science (ICCSOI 2025) comparative analysis on base and ensemble distillation performance on imbalanced bone fracture dataset using vision transformer models.

**Brain Tumor Classification using EfficientNet-b1** Feb. 2025 – April 2025  

- Developed a brain tumor classification system using transfer learning with EfficientNet-B1 on MRI/brain scan images.

**Staff Laziness Detection using Pose Detection system** Sep. 2024 – Nov. 2024  

- produced a pose detection for slacking and working state using self recorded dataset

## Activities

**Freshmen Leader & Partner, Bina Nusantara University** | Jakarta, Indonesia Aug. 2024 – Present  

- This initiative is designed to empower new students by cultivating leadership skills early in their university journey. It provides opportunities to develop communication, teamwork, and project management abilities while encouraging proactive involvement in campus life.

**Peer Tutor** Nov. 2023 – Present  
*Independent* Jakarta, Indonesia  

- Provided personalized tutoring in Algorithm and Programming to 15–20 peers weekly.

## Certifications

**Certifications**  

- Kaggle Learn (2025): Computer Vision; Intro to ML; Intermediate ML; ML Explainability; Intro to Deep Learning; Data Visualization; Data Cleaning; Intro to AI Ethics.

Technical Skills

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**Languages:** Python, C  
**Computer Vision:**Distillation, Ensemble, EfficientNet, ResNet, Vision Transformers, Grad-CAM  
**Machine Learning:** NumPy, Pandas, SciPy, Scikit-learn, Matplotlib, OpenCV  
**Frameworks & Libraries:** TensorFlow, PyTorch, Keras  
**Web Development:** HTML, CSS, React  
**Developer Tools:** Git, GitHub, Docker, MLflow, Weights & Biases, CI/CD Pipelines  
**Data Science & Analytics:** Data Cleaning & EDA, Statistical Analysis, Imbalanced-class Sampling  
**Concepts:** Data Structures & Algorithms

Languages

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English (Intermediate)	Indonesian (Native)
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