

# RAKANDHIYA DAANII RACHMANTO

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## RESEARCH INTERESTS

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Edge Computing, Internet of Things, Artificial Intelligence, Model Compression

## EXPERIENCE

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### Research Collaboration: Evaluation of Various Deep Learning Compressions

*Research Assistant (Nov 2022 - Present)*

- Advisor: Dr. Arief Setyanto (Universitas Amikom Yogyakarta)
- Collaborating with Dr. In Kee Kim (University of Georgia)
- Evaluating the performance of compressed and non-compressed AI model performance on edge devices. Noting changes in accuracy, latency, model size and compression time.

### Research Project: Effects of Knowledge Distillation on YOLO

*Research Assistant (September 2023 - Present)*

- Advisor: Dr. Arief Setyanto (Universitas Amikom Yogyakarta)
- Evaluating effects of knowledge distillation, a technique of model compression on YOLO. Testing various configurations such as distillation techniques and student model configurations. Noting accuracy, latency and model size.

## EDUCATION

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### Undergraduate (Universitas Amikom Yogyakarta)

Informatics Major, 3.91 GPA [[transcript](#)] (2020 - Present)

## AWARDS

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### 3rd Place GKM Informatika IoT 2022

- Student project awards from Universitas AMIKOM Yogyakarta
- Prototype of a weather monitoring system for hiking trails, utilizing temperature, humidity, rainfall sensors, and camera. Connected to internet through MQTT

### PhD Scholarship

PhD scholarship to University of Georgia, starting Fall 2024 (August)

## PUBLICATIONS

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### Characterizing Deep Learning Model Compression with Post-Training Quantization on Accelerated Edge Devices

IEEE EDGE 2024 Conference, Shenzhen, China