

# Difa Winanda Adliya

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A fresh graduate with a Bachelor's degree in Mathematics from Bandung Institute of Technology (ITB). I am passionate about pursuing a career as a Data Analyst, an AI/ML Engineer, Mathematics Researcher, and related. I am proficient in Python, Excel, and SQL. I have developed strong leadership, teamwork, problem solving, and effective communication skills through my experience.

## EDUCATION

### **Bandung Institute of Technology (ITB)**

*Bachelor of Science in Mathematics; GPA: 3.41/4.00*

**Thesis:** Utilization of Generative Artificial Intelligence as an Arithmetic Learning Assistant: Interactive Step-by-Step Instruction Strategy. I used prompt-engineering, fine-tuning, and RAG method in this thesis.

Bandung, Indonesia

Sep 2020 – Oct 2024

## WORK EXPERIENCE

### **Gradient**

*Subject Matter Tutor*

- Delivering personalized tutoring sessions in calculus, helping students grasp complex concepts and improve their problem-solving skills.
- Responding to user inquiries on mathematics and physics, ensuring clear and accurate explanations.
- Continuously expanding my knowledge to provide up-to-date and relevant assistance to users across a broad spectrum of STEM subjects.

Indonesia (Remote)

Sep 2023 – Present

*Quality Assurance*

- Responsible for verifying the accuracy of AI-generated answers for textbook questions, particularly in calculus.
- Revised incorrect responses.

Jul 2024 – Aug 2024

*Subject Matter Writer*

- Composed summaries of Calculus II material in clear and simple language, tailored for first-year university students.
- Developed practice problems that align with the summarized material, including detailed explanations and solutions.

Sep 2023 – Dec 2023

### **EduSains**

*Mathematics Tutor*

- Mentoring junior and senior high school students in preparation for mathematics olympiads.

Indonesia (Freelance)

Feb 2023 – Present

### **Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka**

*Mentee of Machine Learning Course*

- Developed an image classification model to detect drowsiness as part of a major project. The program enhanced technical skills and provided insights from professionals at leading technology companies in Indonesia.

Bandung, Indonesia

Aug 2023 – Jan 2024

### **MATHCO ITB**

*Research and Development Manager*

- Led a team in the preparation and development of the following books: 1) Matematika 1A Soal dan Pembahasan Edisi 2023, 2) Matematika 1B Soal dan Pembahasan Edisi 2023, 3) Matematika 2A Soal dan Pembahasan Edisi 2023, 4) Matematika 2B Soal dan Pembahasan Edisi 2023, 5) Matriks dan Ruang Vektor Edisi 2023.

Bandung, Indonesia

Oct 2022 – Sep 2023

### **Bandung Institute of Technology (ITB)**

*Numerical Mathematics Laboratory Assistant*

Bandung, Indonesia

Aug 2023 – Nov 2023

- Providing assistance to students who are taking part in practical work and assessing the results of their work.

*Mathematics Aid Center Assistant*

*Aug 2021 – Mei 2023*

- Helping first-year students with Mathematics IA, Mathematics IIA, Mathematics IB, and Mathematics IIB problems. Additionally, I provided further explanations of concepts when asked.

*Self Development Trainer*

*Sep 2021 – Feb 2022*

- SMPE-SSDK (Effective Personal Strategy - Campus Success Strategy) is a program series designed by the Directorate of Student Affairs at ITB for first-year students. As a trainer, I delivered materials related to student self-development and provided feedback on the trainees' complaints regarding academic challenges.

## **CikiCiki Education**

Bandung, Indonesia

*Business Mathematics Tutor*

*Jan 2022 – Mei 2022*

- Making summaries, solving problems, and teaching Business Mathematics II material to first-year students of the School of Business and Management ITB.

## **CoLearn**

Indonesia (Remote)

*Video Solution Maker*

*Feb 2021 – Mei 2022*

- Produced math solution videos that are easy to understand for high school and elementary school students. During this internship, I learned a lot about articulation, intonation, speaking pace, video editing, and creating step-by-step problem-solving explanations that are easy to grasp. Every two weeks, I participated in meetings with my colleagues to ensure the quality of our videos.

## **ORGANIZATIONAL EXPERIENCE**

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### **HIMATIKA ITB (Mathematics Student Association in ITB)**

Bandung, Indonesia

*President*

*Mar 2023 – Mar 2024*

- Developed and implemented strategic work programs to increase member engagement and strengthen the student community.
- Led the executive team in managing various academic, social, and career development activities, including seminars, workshops, and national competitions.
- Collaborated with faculty, alumni, and other organizations to create opportunities for HIMATIKA members in professional and academic development.
- Optimized the management of organizational resources, including budget and logistics, to ensure the sustainability of HIMATIKA programs.
- Enhanced the visibility and image of HIMATIKA through effective communication strategies, including the use of social media and publications.

*Academic Staff*

*Nov 2021 – Feb 2023*

- Responsible for archiving exam questions by typing and formatting them using LaTeX.
- Contacting tutors and arranging them for academic needs of the students

## **AWARDS**

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**BSI Scholarship Talenta 2023 Awardee:** A scholarship by BSI Maslahat for final-year undergraduate students.

**Silver Medal on Mathematical Analysis and Geometry Day (MaG-D) XIV 2023:** Organized by Analysis and Geometry Group FMIPA ITB.

**Finalist of National Data Science Tournament (TSDN) 2021:** Organized by Data Academy.