Ilma Aliya Fiddien

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WORK EXPERIENCES

AJARI Technologies	Jakarta, Indonesia
 Machine Learning (NLP) Engineer Developing and maintaining deep learning models for text summarization, question-answering, and text-to-speech task for education use cases Researching and experimenting alternative methods to improve existing systems 	Oct 2023 - Ongoing
 Self-employed/Freelance Programming, Data Science, and Machine Learning Tutor Teach and give consultations for projects related to Python programming, data science, and machine learning. Some tools used: Tensorflow, PyTorch, Pandas, NLTK, SpaCy, OpenCV, Pillow. 	Remote Feb 2022 - Ongoing
 Bitlabs Academy Data Science Instructor, Associate Developed data science learning materials in form of slides and Jupyter notebooks. Taught machine learning concepts and algorithms in a boot camp. 	Remote July 2021 - Jan 2022
 YPM Salman ITB Program Manager of Perintis Scholarship Development Researched & systemised a 4-year curriculum of leadership & academic development for 197 awardees. Led a team of 6 in designing and organising monthly leadership programs. 	Bandung, Indonesia July 2021 - Jan 2022
 Omdena, Human Right First (Hrf) Junior Machine Learning Engineer Collected and prepared the dataset using Twitter API, then labelled the raw data. Explored Transformers models for multilabel prediction tasks: detecting human right violations through social media texts. 	Remote May 2021 - July 2021
 Institut Teknologi Bandung, Dept. of Mathematics, Algebra Research Group Research Assistant Create a Python program to give a computational assessment of proofs proposed in a research paper. 	Bandung, Indonesia Mar 2021 - Dec 2021
 Institut Teknologi Bandung, Dept. of Mathematics Assistant of Mathematics Simulation and Computation Laboratory Taught MATLAB for mathematics modelling simulation to 50+ students. Assisted students in weekly lab practices and grade their work. 	Bandung, Indonesia Sep 2019 - Dec 2019
EDUCATIONS	
The University of Edinburgh	Edinburgh, UK

MSc, Speech and Language Processing Thesis: Investigating Clear-Writing Principles for Scientific Communication: Automated with ClearMetrics. Supervised by Adam Lopez, Ph.D. Relevant courses: natural language processing & understanding, automatic speech recognition, speech synthesis, AI ethics.

Bandung, Indonesia

2017 - 2021

Insitut Teknologi Bandung

BSc, Mathematics

- Thesis: Partition Dimension of 2-Strong Product Graphs and Resolving Partition Finder Program for Some Classes of Graph. Supervised by Prof. Dr. M. Salman A. N.
- Relevant courses: deep learning, graph theory, philosophy of science.
- External course: Google Bangkit 2021 Machine Learning Path.

SCHOLARSHIPS AND AWARDS

ISIC 2023 PPI UK, Best Essay in Social and Health Reconstruction Category Title: "Revolutionising Educational Inclusivity in Indonesia with Conversational AI"	2023	
The Indonesia Endowment Fund for Education Scholarship, Indonesia Ministry of Finance	2022 - 2023	
Salman Activist Scholarship (BAS), Rumah Amal Salman	2019 - 2020	
Improvement of Academic Achievement (PPA) Scholarship, Institut Teknologi Bandung	2018	
INVITED TALK		
Guest Mentor Talks: Math and Deep Learning, Indonesia AI < <u>video</u> >	19th Sep 2021	
RECENT VOLUNTARY/LEADERSHIP EXPERIENCES		
Students as Change Agents, The University of Edinburgh	Edinburgh	
Change Agent	Summer 2023	
Answered to Edinburgh City of Literature Council to elaborate on <i>How can we incite</i>		
<i>people from all walks of life to enjoy literature?</i> using current ecosystem between the university and local schools		
 Led the team of 7's design thinking-oriented discussion, ensuring all members 		
were on board.		
Al for Indonesia Community	Remote	
AI for Agricultural Discussion Group, Guest Mentor	Nov 2021 - Oct 2022	
Led a research team, explored potential AI application in the country's agriculture		
 Hold bi-monthly seminar discussing AI applications in Indonesia for general audiences 		
audiences		
Keluarga Mahasiswa Islam ITB	Bandung, Indonesia	
Member of Advisory Council	Jan 2021 - Jan 2022	
 Supervised the organisation committee and coach the heads of sectors Developed a structured learning curriculum for the organisation's think tank 		
Vice Head of Human Development Sector, Think Tank	Oct 2019 - Jan 2021	
 Designed vision, missions, and strategy for the organisation with a team 		
Coordinated 5 series of development programs for 200+ cadres with 3 departments		
and 2 committees		
ITB Character Development Center	Bandung, Indonesia	
SMPE & SSDK Trainer	May 2019 - Jan 2020	
 Explained the concept & application of proactive, end-goal setting, and prioritization habits to 60+ college freshmen 		
 Managed campus introduction events 		

PERSONAL PROJECTS

Programming

Image Captioning with ResNet50 and LSTM - trained on MS COCO dataset; using PyTorch on GPU2021Indonesian Songs Lyrics Dataset - web scrapping using BeautifulSoup and concurrent's futures2021Macapedia: A Book Recommender System - using Tensorflow & GCloud; data scraped from Goodreads2021Graph Partition Dimension Finder - a Python GUI program using PyQt5, NetworkX, and PyVis2020Twitter Sentiment Analysis - on a political issue; a rule-based model using regex, NLTK, NetworkX2020Tower of Hanoi Game - a number theory application; using PyGame2019

Personal Development

Notion Template: Personal Contribution Plan

OTHER SKILLS & INTERESTS

Language:Indonesian and Sundanese (native), English (professional, IELTS Band 8.0).Interests:Jogging, reading books, watching documentaries, blogging, discussing psychology, philosophy
and technology topics.

2022