Portfolio

Ilma Aliya Fiddien

Writing

Leadership & Human Development

Programming & Technology

Writing

Academic Essays

Revolutionising Educational Inclusivity in Indonesia with Conversational AI: Opportunities, Challenges, and Strategies [<u>read</u>]

Lensa's Magic Avatar Raises Concerns Amongst Artists: A Case Study in Al Ethics [<u>read</u>]

Jalan Tengah Antara Rasionalitas dan Spiritualitas [<u>read</u>]

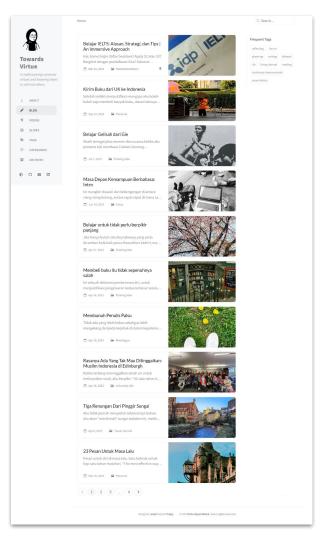
Sains, Bebas-Nilai atau Terikat-Nilai? [read]

Online Blogging

Writing to reflect from my experiences and to crystallize what I had learned.

fiddien.com

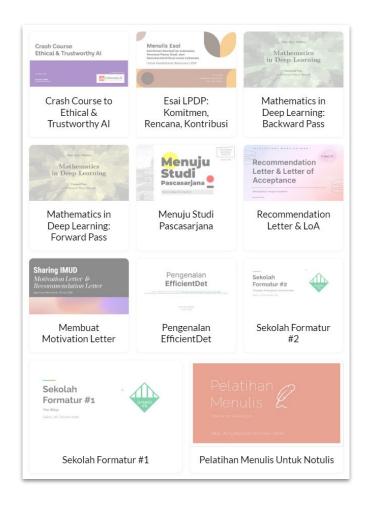
fiddien.medium.com



Slides for Speaking In Public Events

On artificial intelligence, machine learning, scholarship, studying abroad, organization planning, etc.

fiddien.com/slides



Leadership & Human Development

Program Manager of Pembinaan Beasiswa Perintis

Restructured a leadership-based curriculum for the scholarship awardee across their 4-year journey.

Conducted monthly development programs.





Majelis Pertimbangan Organisasi GAMAIS ITB

Oversaw all programs related to people-development and regeneration.

Developed a learning curriculum for the regeneration team and closely advise them.





Programming & Technology

Analyse the Clarity of a Sentence

Combining machine learning with rule-based algorithm to check whether a sentence adheres to a specific clear-writing principles.

A part of my master's thesis.

Python, NLP, spaCy, Flask dependency relations, abstract meaning representation





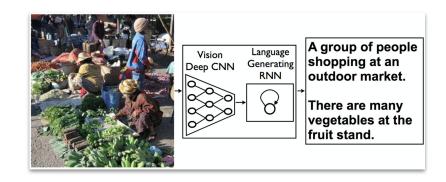
Generate Captions for Images

Developed a deep learning model to generate captions for images.

Given an image, a CNN encoder is placed on top of a pre-trained ResNet50 before an RNN decoder produces appropriate texts.

Python, PyTorch, NLTK computer vision, natural language



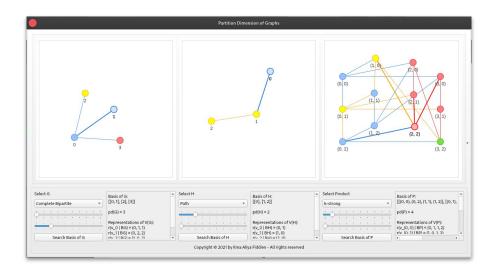


Graph Partition Dimension Program

Visualize the *k*-strong operation between two graphs and find its partition dimension.

A part of my bachelor's thesis.

Python, NetworkX, PyQt5 graph theory







Indonesian Song Lyrics Corpus

A corpus of 22145 songs lyrics scrapped from Kapanlagi.com.

A personal project.

Python, BeautifulSoup, multi-threading natural language corpus

22145 unique values	22141 unique values	Iwan Fals 1% Rhoma Irama 1% Other (21542) 97%	[null] 19% Kumohon kau meng 0% Other (17989) 81%
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https://lirik.kapanl	Abadikan Kisah Ini	Supergirlz	



Tower of Hanoi Game

Play Tower of Hanoi game through a GUI.

A coursework.

Python, PyGame number theory





