

2024

Vanny Khairunnisa's PORTOFOLIO

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Statisticans

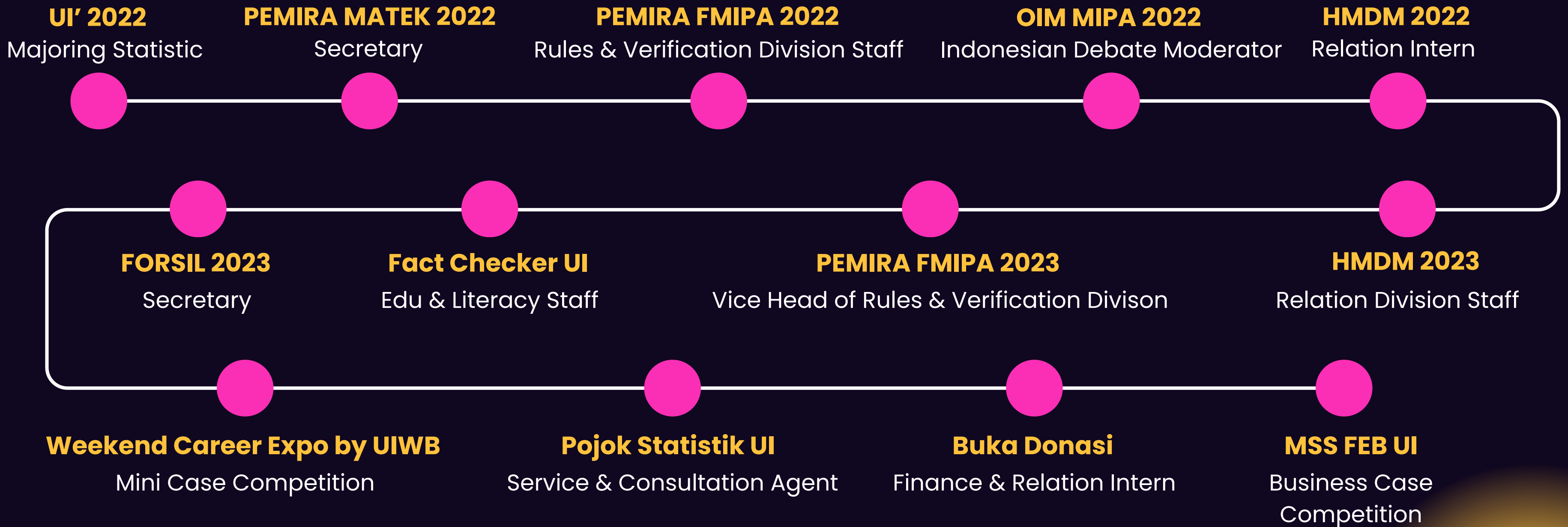
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About me

An undergraduate student majoring Statistics at University of Indonesia, I have strong in data science, business, and economics. I'm well-known for my persistence and organizational skills. I work well both alone and in teams, often meeting deadlines and accomplishing objectives under duress. I am a quick learner who is passionate about taking on new challenges.



Experience Journey



Skills & Tools



R Studio



Jupyter & GoogleColab



SQL



Canva & Figma



Microsoft App

Data Visualization, Statistical Analytics, Econometrics, Multidimensional Scaling & Clustering, Pre-processing, GUI, Database Management, Quantitative Analysis, Sampling, Survey, and Forecasting

Photo & Video Editing, Vector Graphic Editing, and PowerPoint Design

Excel, Word, PowerPoint, and Teams

Work Experiences



Service and Consultation Department

Help UI Academics explore data correctly and provide accurate information, as well as guidance on data literacy and the best methods to utilize.

25+ Consultation
from April 2024

Contributing for 2
public infographics



Fundraising & Relationship Intern

Analyzing customer and company behavior Also in charge of coordinating web development and administrative functions.

Best Intern at October 2024



Latest Project

ANALYSIS OF FACTORS INFLUENCING POVERTY DEPTH (P1) IN INDONESIAN

	Model Tanpa Transformasi (Model 1)	Model Linier-Logaritma (Model 2)	Model Logaritma-Linier (Model 3)	Model Logaritma-Logaritma (Model 4)
R-squared	0.778	0.659	0.712	0.676
Adj. R-squared	0.696	0.533	0.605	0.556
Durbin-Watson:	1.783	1.328	1.805	1.531
Jarque-Bera (JB):	0.805	0.631	2.08	0.756
Skew	0.281	0.258	-0.524	0.32

colab

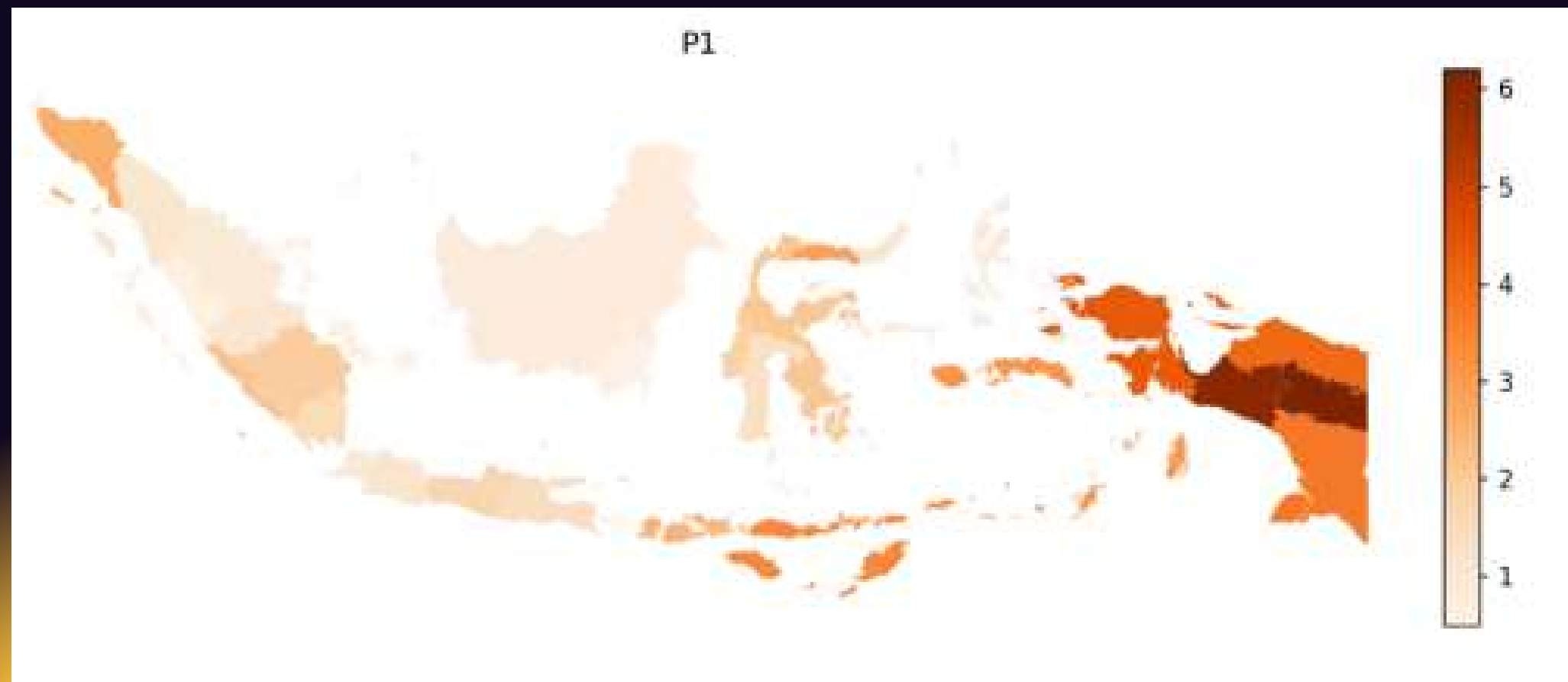


Poverty as an issue concern in Indonesia can be learned further by examining the Poverty Gap Index (P1). Using a log-linear model, the Poverty Gap Index is determined by the lowest level of education, work fraction of the population, and earnings. This study hopes to assist the government in increasing Indonesia's poverty, as one of the Sustainable Development Goals (SDGs).

Data Visualization, Quantitative Analysis, and Econometrics.

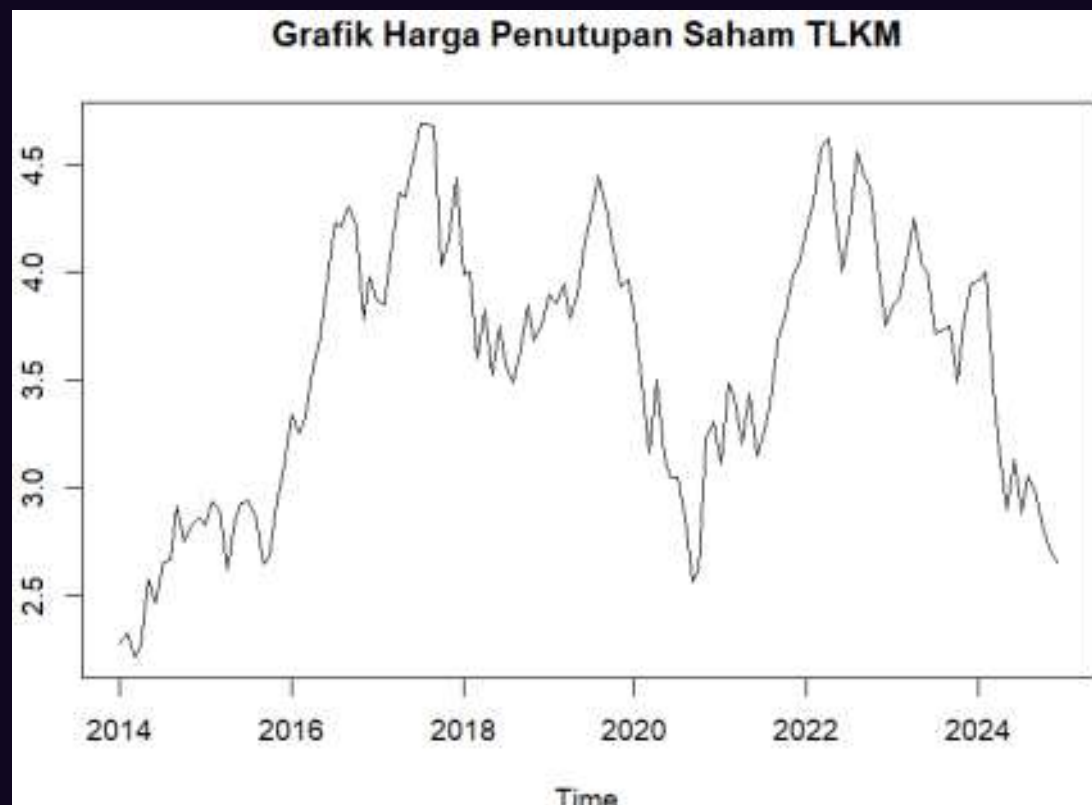
[Click here for paper.](#)

[Click here for codes.](#)

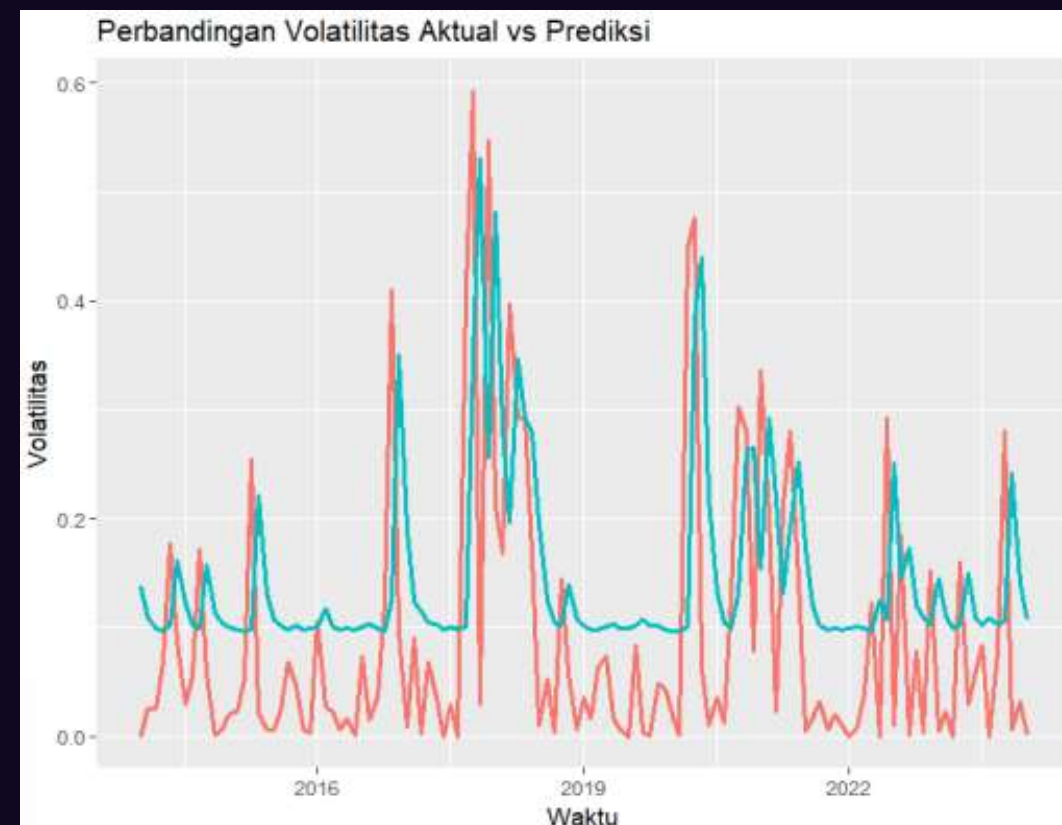


Latest Project

PREDICTION OF STOCK PRICE OF PT TELKOM INDONESIA



R Studio



Using PT Telkom Indonesia (Persero) Tbk, this study proposes to estimate monthly stock prices using GARCH (1,1) models based on stock price volatility. Founded that the volatility of the stock price is sensitive to the shock that could happen by any incidence.

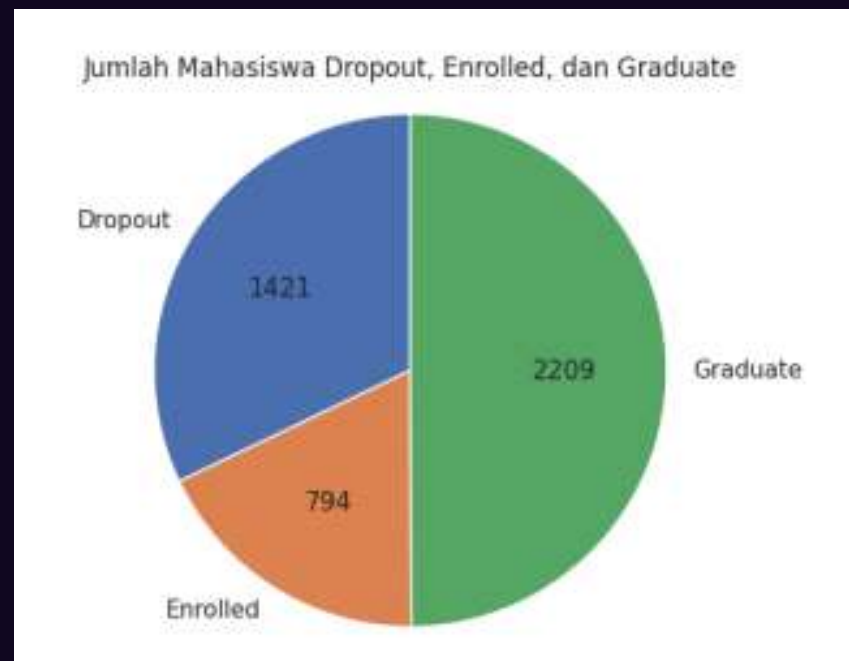
Quantitative Analysis, Econometrics, Time Series Analysis, Forecasting, and Residuals Analysis.

[Click here for paper.](#)

[Click here for codes.](#)

Latest Project

PREDICTION OF STUDENT ACADEMIC SUCCESS



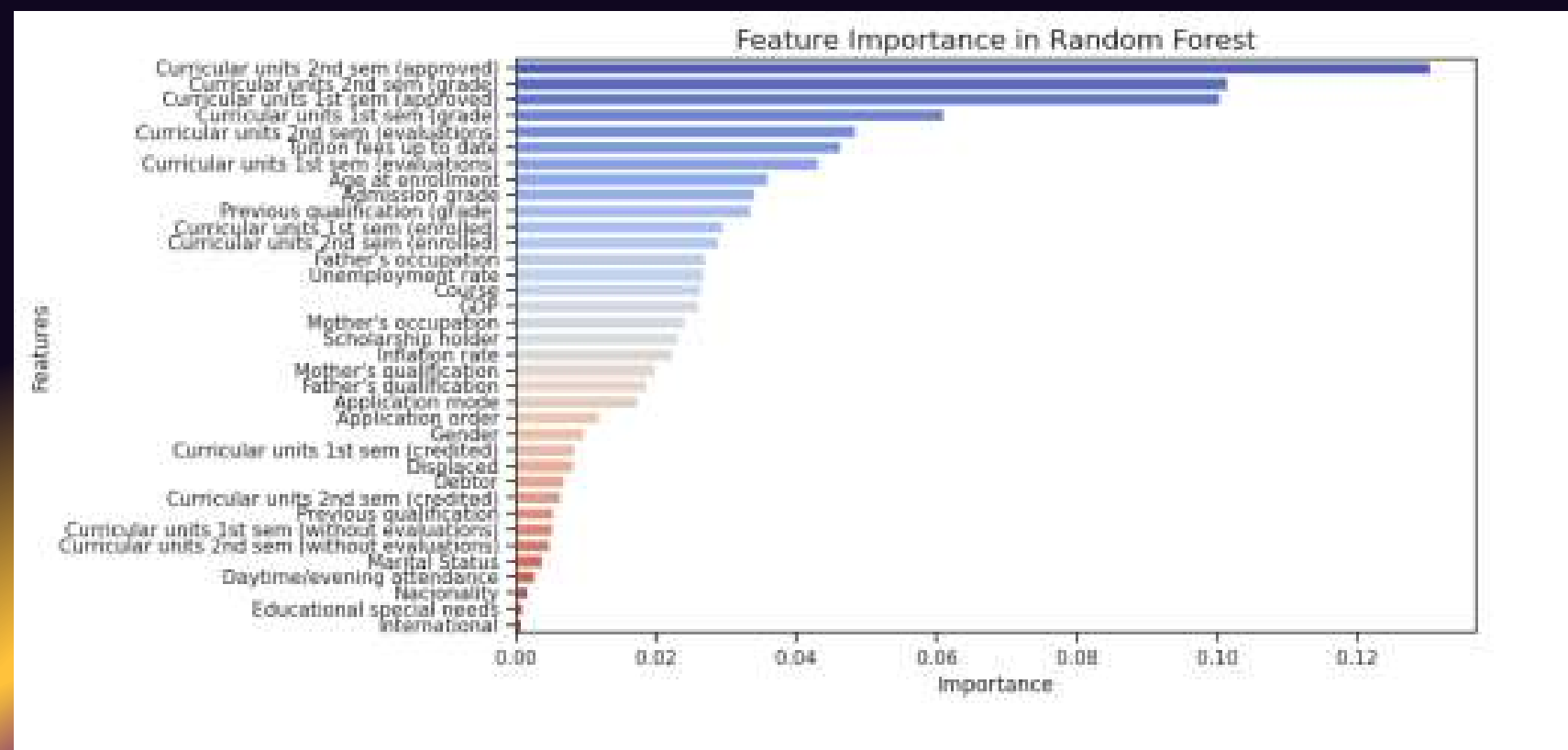
colab



Academic success was a key measure of the university's and students' quality. Dropout rates appear to be a major issue across all academic sectors. This study uses Random Forest Analysis to analyze the aspects that may influence a student's decision to drop out, allowing the university to devise a wonderful solution to prevent a large number of dropouts.

Quantitative & Qualitative Analysis, Clustering, Data Mining, and Random Forest Analysis.

[To learn more, click here.](#)



Latest Project

Library Database System



	ID_Buku	judul	pengarang	penerbit	Tahun_terbit	klasifikasi
0	B1	Harry Potter dan Batu Bertuah	IDP1	PEN1	2005	KLS1
1	B2	Rahasia Alam Semesta	IDP2	PEN2	2010	KLS2
2	B3	Tesis Mengenai Manajemen Pendidikan	IDP3	PEN3	2022	KLS3
3	B4	Makalah Keamanan Siber	IDP4	PEN4	2018	KLS4
4	B5	Kumpulan Puisi Cinta	IDP5	PEN5	2014	KLS1
5	B6	Panduan Lengkap SEO	IDP6	PEN6	2019	KLS2
6	B7	Petualangan Sherina	IDP7	PEN7	2017	KLS1
7	B8	Jurnal Teknik Elektro Vol. 3	IDP8	PEN8	2020	KLS5
8	B9	Analisis Data Mining pada E-commerce	IDP9	PEN9	2021	KLS6
9	B10	Manajemen Pendidikan di Era Globalisasi	IDP3	PEN10	2022	KLS3

Cari Buku:

Cari

Ditemukan 1 buku:
- Harry Potter dan Batu Bertuah oleh J.K. Rowling

Judul Buku:

Cek Ketersediaan

Judul: Harry Potter dan Batu Bertuah
Penulis: J.K. Rowling
ID Buku: B1
Total Salinan: 6
Tersedia: 6
ID Buku Per Copy Tersedia: BK11,BK15,BK21,BK26,BK38,BK41

Judul:

Pengarang:

Penerbit:

Tahun Terbit:

Klasifikasi:

Masukkan Data

Database Final Project

The library database system is meant to improve operational efficiency by allowing librarians to easily control book transactions, memberships, and collections, while also giving members with online access to book availability.

colab

SQL

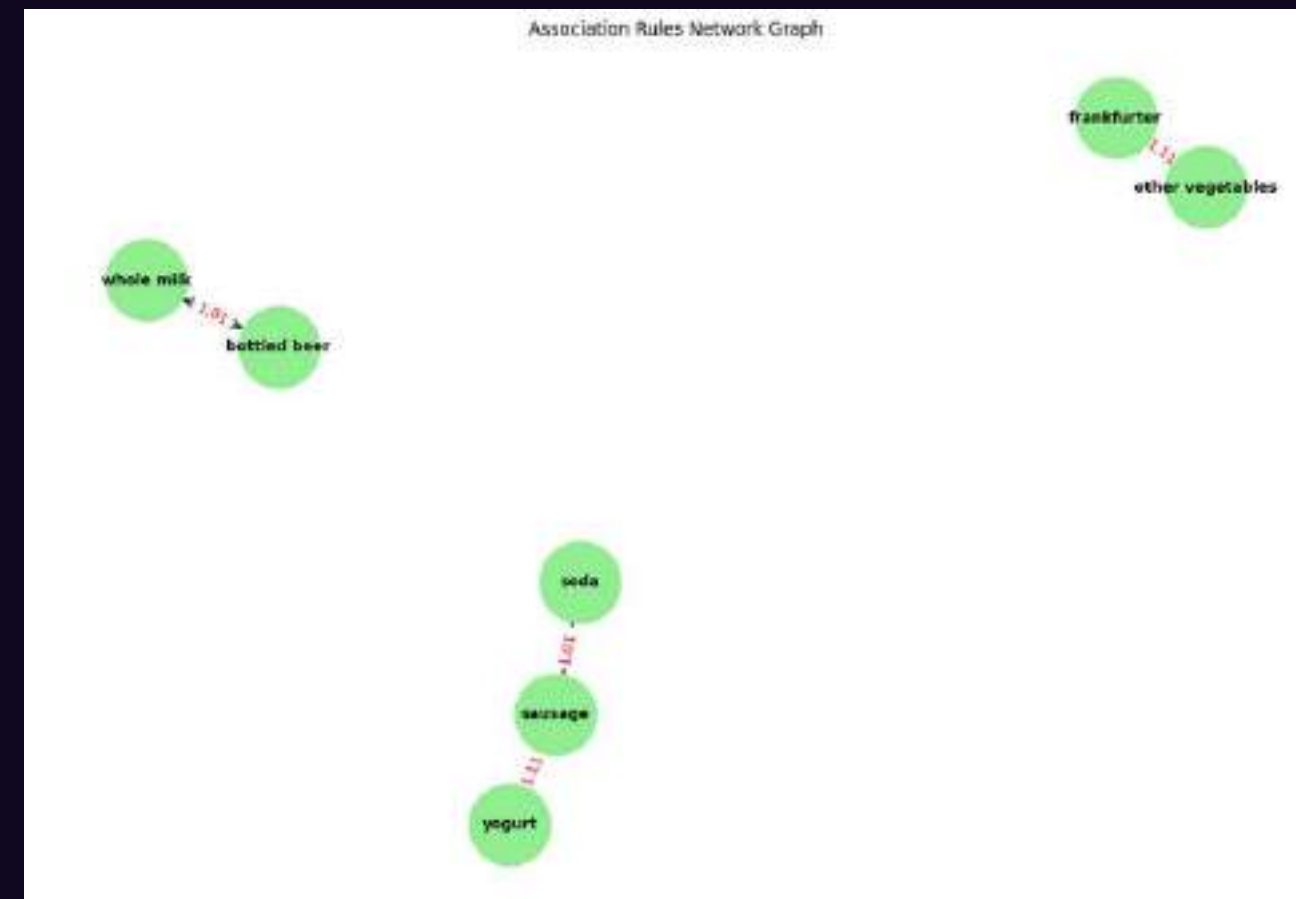
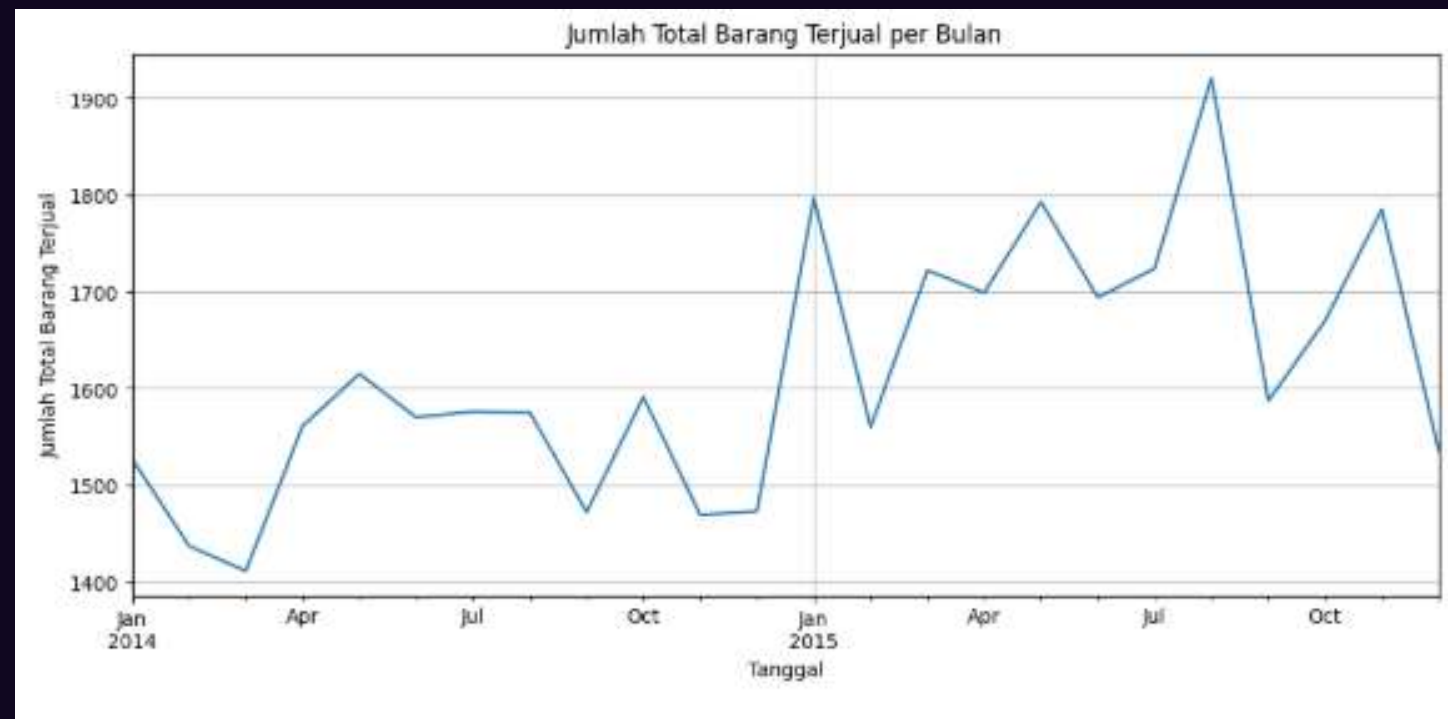


[To learn more, click here.](#)

GUI, Database Management, SQL, Diagram Relational

Latest Project

Market Basket Analysis at Wholesale Store



This study can assist company and consumers in determining the product's relevance and in boosting sales through the best possible packaging, advertising, and hospitality by identifying the pattern of purchases using association rules.

Data Mining, Preprocessing, Data Visualization, Market Basket Analysis, and Algorithm.

[To learn more, click here.](#)

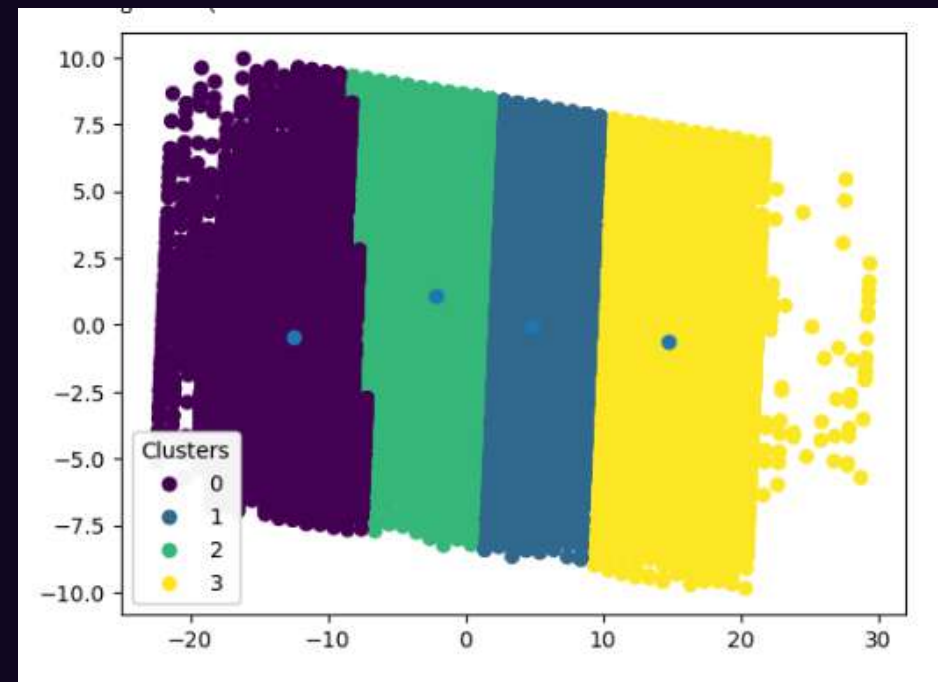
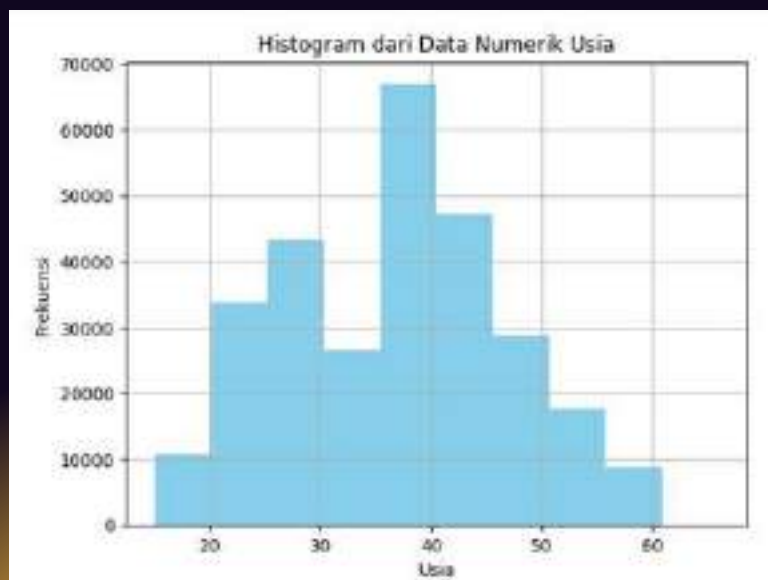
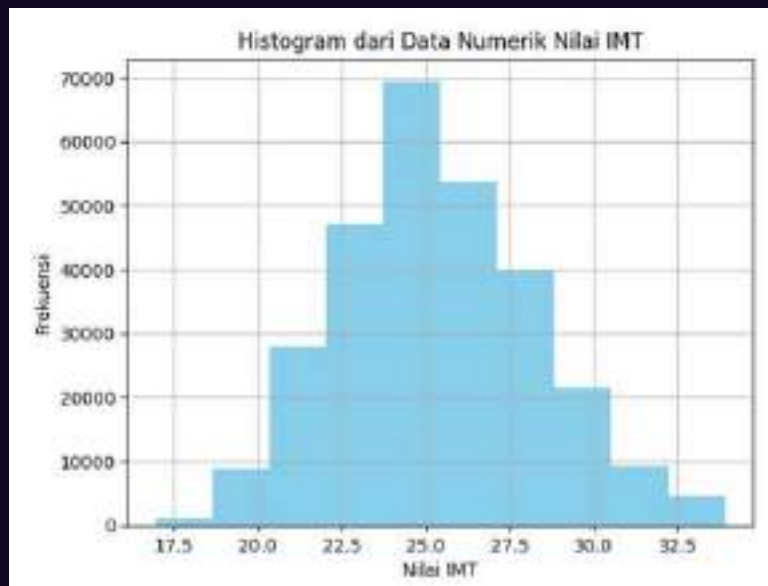
colab



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Latest Project

Body Mass Index and Smoking Behaviour



This study investigates the relationship between body mass index and smoking practices and presents the results in the form of four separate health clusters. A comparison of methods with and without parallel programming is also conducted.

[To learn more, click here.](#)

```
[ ] if __name__ == "__main__":  
    X = df_num.values  
    n_clusters = 4  
  
    start_time = time.time() #Memulai pengukuran waktu  
    cluster_labels, centroids = parallel_kmeans(X, n_clusters) ##Menjalankan algoritma K-Means paralel  
    end_time = time.time() #Mengakhiri pengukuran waktu  
    running_time = end_time - start_time #Menghitung waktu  
  
    print(f"Time taken for parallel kmeans: {running_time} seconds")  
  
Time taken for parallel kmeans: 34.09055733680725 seconds
```

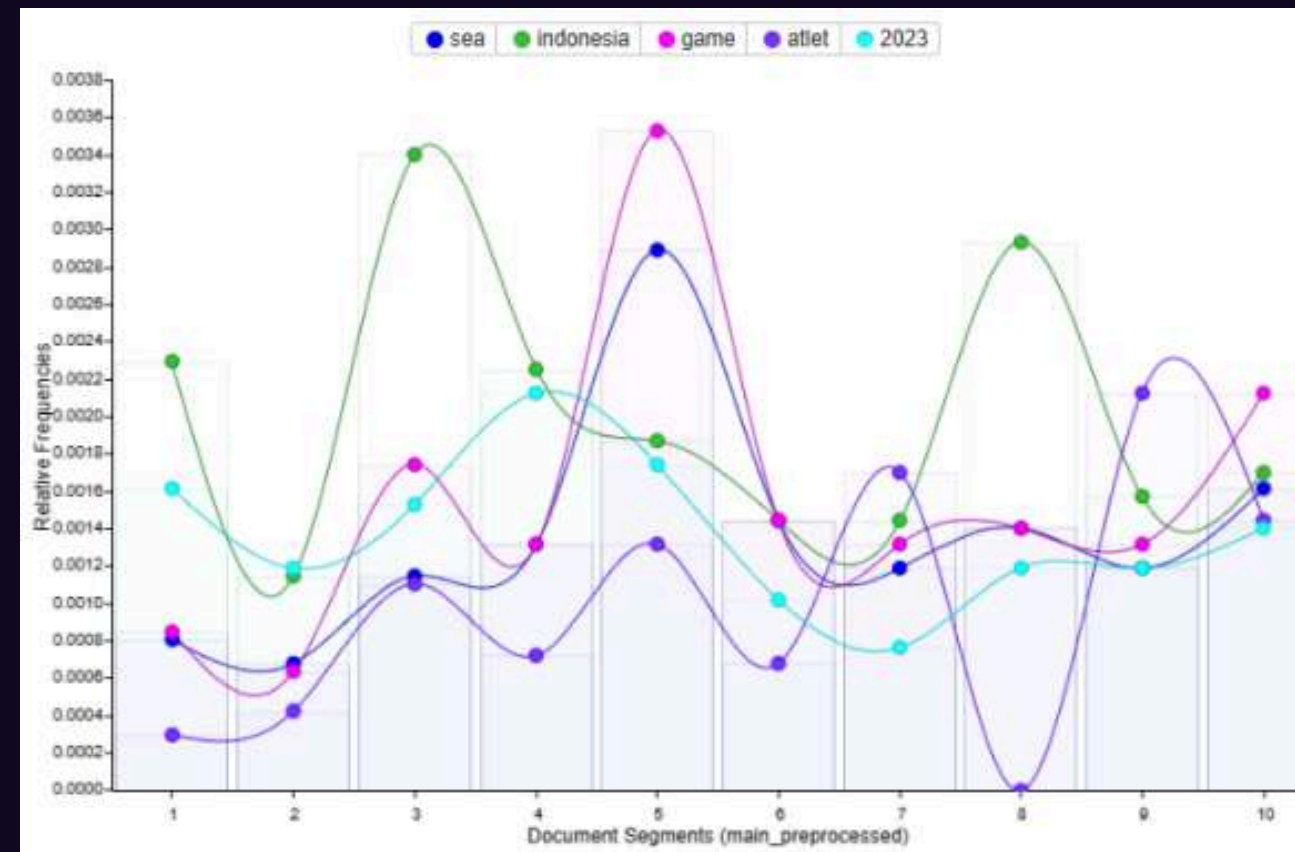
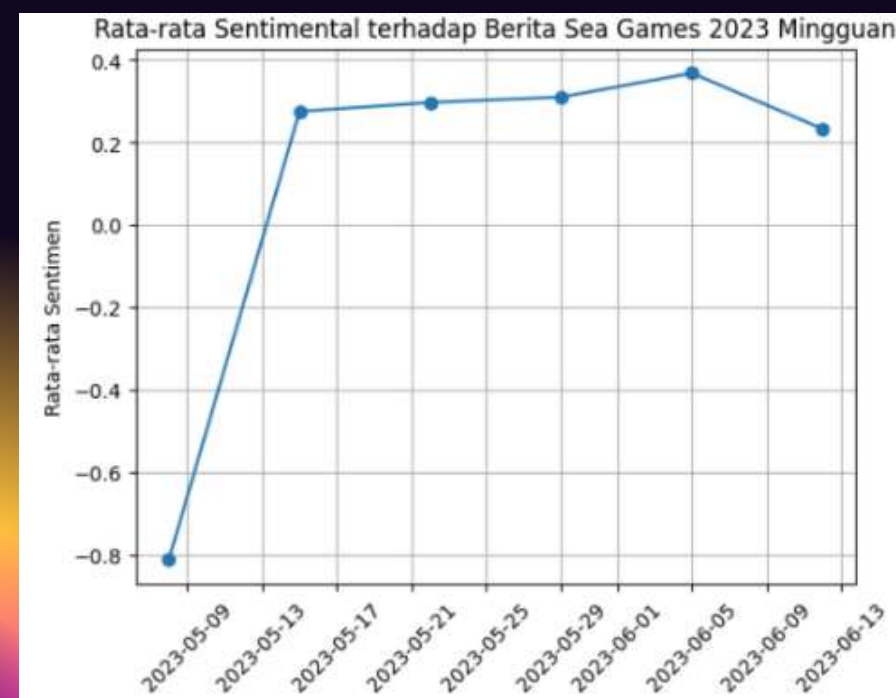
colab

Canva

Pre-processing & Data
Cleaning, Data Wrangling
& Aggregate, and Data
Visualization.

Latest Project

Sea Games 2023 Trend News



To learn more, click here.

Pre-processing & Data Cleaning, Normalisation, Qualitative Analysis, and Data Visualization.

Data Exploration & Visualization Final Project

Sea Games 2023, hosted in Kamboja, have a considerable emotive shift of emotion, according to the Detik.com news data research.



Latest Project

Level of Indonesian Educational Completion rate by Indonesian Province 2020 – 2022 Infographic

Based on infographic, the percentage of completion of education in Indonesia, there are significant differences between provinces.

R Studio

Canva

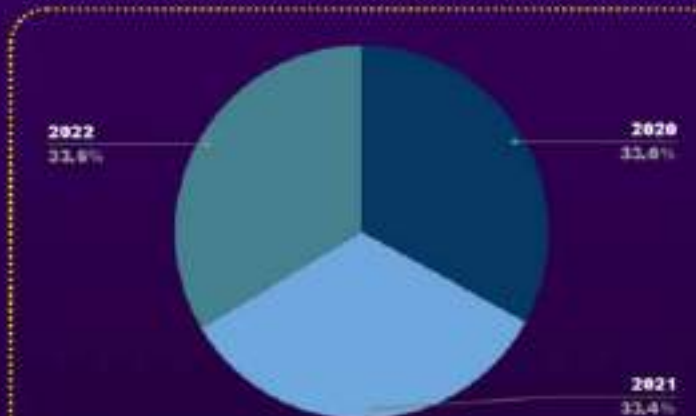
Survey, Market Analyst, Pre-processing & Data Cleaning, Quantitative Analyst, Multivariate Analyst, and Data Visualization.

Tingkat Penyelesaian Pendidikan Menurut Jenjang Pendidikan dan Provinsi 2020-2022



Data

Presentase tingkat penyelesaian pendidikan menurut jenjang pendidikan yaitu SD, SMP, SMA pada 34 Provinsi di Indonesia



Presentase tingkat penyelesaian pendidikan pertahun dalam range 2020-2022 tidak menunjukkan perbedaan yang signifikan namun terjadi kenaikan tingkat penyelesaian pendidikan pada tahun 2022



PENYELESAIAN PENDIDIKAN

Presentase Tingkat Penyelesaian Pendidikan pada tahun 2020-2022 tertinggi berada pada nilai 93.8% oleh Provinsi Yogyakarta dan disusul oleh DKI Jakarta sedangkan penyelesaian pendidikan terendah pertama berada pada nilai 71.78% oleh Provinsi Nusa Tenggara Timur.



Tingkat penyelesaian pendidikan SD pada setiap tahun (2020-2022) paling memiliki presentase tertinggi yang disusul oleh tingkat penyelesaian SMP. Sedangkan tingkat penyelesaian pendidikan SMA memiliki presentase terendah setiap tahunnya.

Hasil Uji MANOVA

Dengan hasil uji MANOVA didapatkan terdapat perbedaan yang signifikan antar variabel dependen multivariat pada kelompok yang berbeda-beda.

Vanny Khairunnisaa
2206051506
Badan Pusat Statistik

Penyelesaian Pendidikan SD



Penyelesaian Pendidikan SMP



Penyelesaian Pendidikan SMA



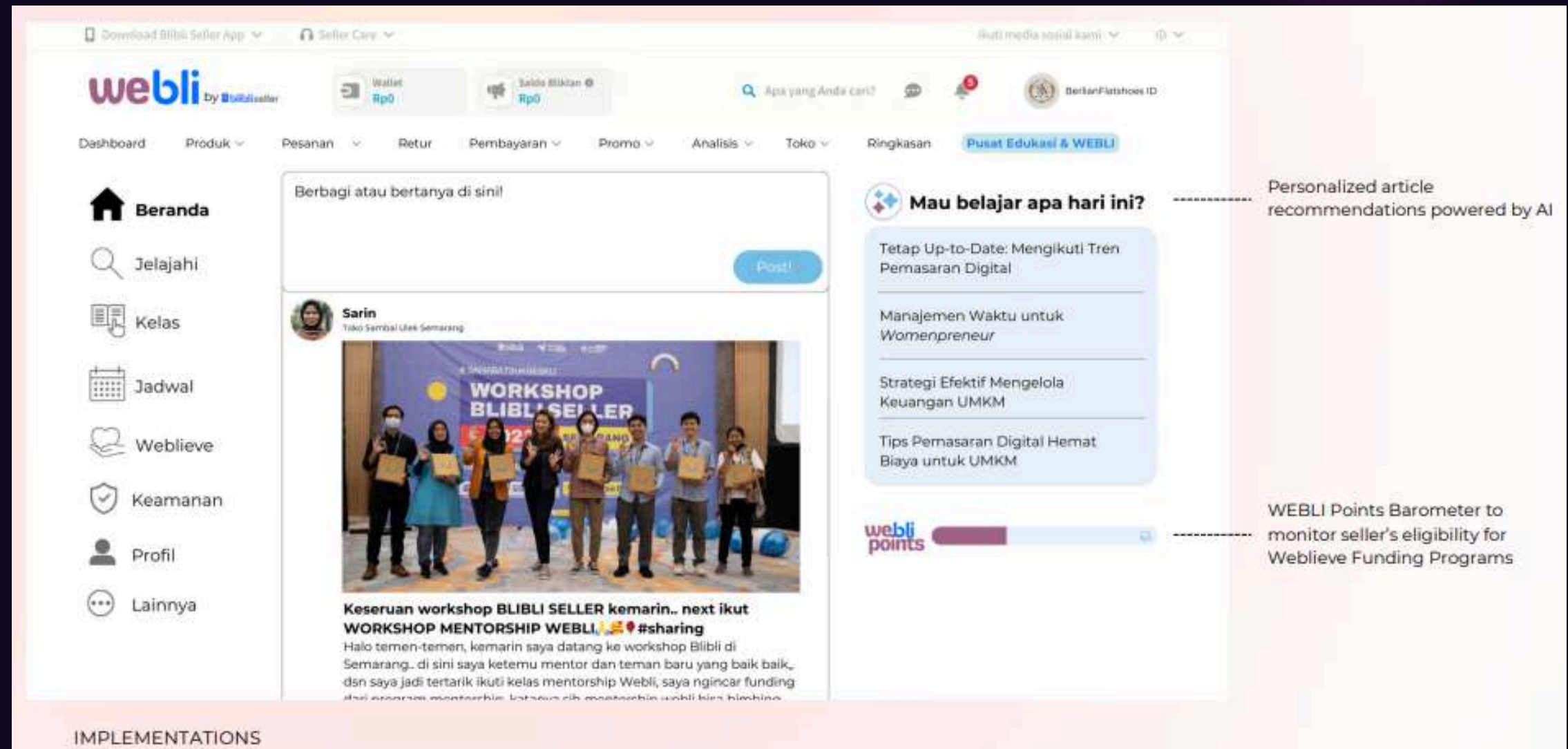
Latest Competition

Mini Business Competition By UIWB X Blibli

webli by **blibli** seller

WEBLI – Women Entrepreneur of Blibli

An inclusive section within the Blibli Seller Center website and app dedicated to fostering a secure and empowering digital marketplace for women, particularly SME owners.



Critical Thinking, Creativity, Business Analysis

Latest Competition

MSS FEB UI

BIKI +

Impactful circular economy plan to solve Indonesia's food challenges while also providing knowledge empowerment to all parties and improving the BIKI operational system.

BIKI STRATEGY vs. Root Problem Tree



How does BIKI Strategy correlate to the identified problem?

STRATEGY	Technologies			Socials		Prices		
	Traceability System	Supply Chain Integration	Scalable Solutions	Farmers & Packing House Education	Consumers Awareness	Subscription Fees	Data Licensing	Pricing Improvement
BIKI +	✓			✓	✓	✓	✓	✓
Impactful Circular Economy		✓	✓	✓	✓			✓
Knowledge Empowerment		✓		✓	✓		✓	
Improving Operational System	✓	✓	✓					✓
M	N A		A				N	



Certificate

01



02



Certificate

03



04



Certificate

05



06



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