



INTRODUCTION

Hi I'm Bayu Nalury

- 50++ **Honors & Awards** on LinkedIn
- Focus On **Data Analyst, Strategy Management**
- Central Bank of Indonesia **Scholarship Awardee**
- Delegate **Outstanding Student FEB** Telkom University
- Certified **Public Speaking** at **BNSP**
- **Best Paper** Profesi Keuangan by **Kementrian Keuangan** 2024
- **UNDP X AIS Forum** Selected Student for Issue Blue Economic as a **Research Innovation Assosiate**

Let's embark on a journey of growth and learning together.

next slide →



EDUCATION

Telkom University

Management Business

Telecommunication Informatics

2022-present

- Information and Communication Technology (ICT) Expertise Group
- Test Certification BNSP
- Delegate Mapres Telkom University
- Business Plan Competition and Essay Competition
- Central Bank Scholarship Awardee
- Talent Photoshoot SMB Telkom
- Speaker
- Assistant Lecturer
- Competition Mentor
- Project Lecturer
- Volunteer
- IKK 4.00 out of 4.00



SOME BRANDS I'VE WORKED WITH



PLN



Fakultas
Ekonomi & Bisnis
Telkom University



nutrifood
inspiring a nutritious life



HUMiC
Engineering



GRIT
ENTREPRENEUR



GenBI
Generasi Baru Indonesia



Archipelagic
& Island States
Forum

kompasiana
Beyond Blogging



Direktorat
Kemahasiswaan
Karier dan Alumni



Telkom University
Open Library

SOME COURSE/TRAINING WITH

dicoding



BINAR



SKILLS AND TOOLS



EXCEL

Used for data cleaning, basic analysis, quick calculations, and simple dashboard creation.



POWER BI

Used for building interactive dashboards and in-depth data visualizations. Power BI allows me to transform complex support decision-making.



TABLEAU

- Create interactive dashboards and visual reports
- Connect to multiple data sources (Excel, SQL databases, cloud sources, etc.)



G. Collab use Python

Analyzing data with various stages of scraping, preprocessing, labeling, data models (IndoBERT, CNN, Naive Bayes, etc.), Classification, Training and Testing Data, and Confusion Matrix



PHYTON

Utilized for advanced data analysis, automated processing, and machine learning. Libraries such as Pandas, NumPy, and Matplotlib are key parts of my analytics workflow.



SQL

Essential for accessing, manipulating, and extracting data from databases.



LOOKER STUDIO

Used to create web-based data visualizations and accessible dashboards.



MICROSOFT OFFICE

Used for preparing analytical reports, presentations, and documentation.



PROJECT DASHBOARD DATA ANALYST

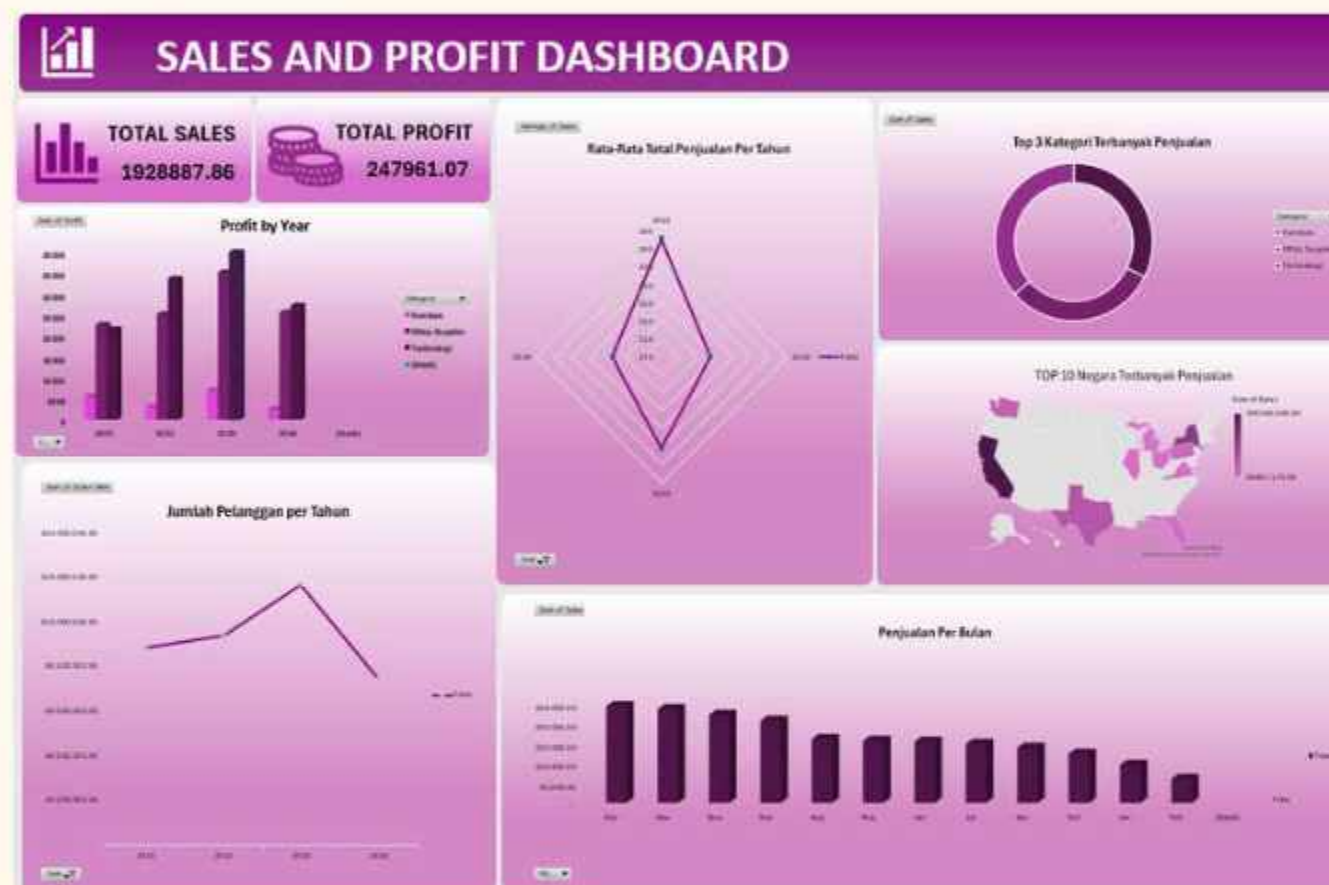
Using Tools Tableau, Pivot Table Excel, Power BI, dan Looker Studio

PROJECT VISUALIZATION DATA

DATASET

Order Date	Customer Name	State	Category	Sub-Category	Product Name	Sales	Quantity	Profit	Month	Year
44199	Darren Powers	Texas	Office Supplies	Paper	Message Book, Wirebound, Four 5 1/2" X 4" Forms/Pg., 200 Dupl. Sets/Book	16.45	2	5.55	Jan	2021
44200	Phillina Ober	Illinois	Office Supplies	Labels	Avery 508	11.78	3	4.27	Jan	2021
44200	Phillina Ober	Illinois	Office Supplies	Storage	SAFCO Boltless Steel Shelving	272.74	3	-64.77	Jan	2021
44200	Phillina Ober	Illinois	Office Supplies	Binders	GBC Standard Plastic Binding Systems Combs	3.54	2	-5.49	Jan	2021
44201	Mick Brown	Pennsylvania	Office Supplies	Art	Avery Hi-Liter EverBold Pen Style Fluorescent Highlighters, 4/Pack	19.54	3	4.88	Jan	2021
44202	Lycoris Saunders	California	Office Supplies	Paper	Xerox 225	19.44	3	9.33	Jan	2021
44202	Jack O'Briant	Georgia	Office Supplies	Art	Dixon Prang Watercolor Pencils, 10-Color Set with Brush	12.78	3	5.24	Jan	2021
44202	Maria Etezadi	Kentucky	Furniture	Chairs	Global Deluxe High-Back Manager's Chair	2573.82	9	746.41	Jan	2021
44202	Maria Etezadi	Kentucky	Office Supplies	Binders	Ibico Hi-Tech Manual Binding System	609.98	2	274.49	Jan	2021
44202	Maria Etezadi	Kentucky	Office Supplies	Art	Rogers Handheld Barrel Pencil Sharpener	5.48	2	1.48	Jan	2021
44202	Maria Etezadi	Kentucky	Technology	Phones	GE 30524EE4	391.98	2	113.67	Jan	2021
44202	Maria Etezadi	Kentucky	Technology	Phones	Wireless Extenders zBoost YX545 SOHO Signal Booster	755.96	4	204.11	Jan	2021
44202	Maria Etezadi	Kentucky	Office Supplies	Fasteners	Alliance Super-Size Bands, Assorted Sizes	31.12	4	0.31	Jan	2021
44202	Maria Etezadi	Kentucky	Office Supplies	Paper	Southworth 25% Cotton Granite Paper & Envelopes	6.54	1	3.01	Jan	2021
44203	Vivek Sundaresam	Texas	Furniture	Furnishings	Howard Miller 14-1/2" Diameter Chrome Round Wall Clock	76.73	3	-53.71	Jan	2021
44203	Vivek Sundaresam	Texas	Office Supplies	Binders	Acco Four Pocket Poly Ring Binder with Label Holder, Smoke, 1"	10.43	7	-18.25	Jan	2021
44205	Melanie Seite	Texas	Office Supplies	Art	Newell 312	9.34	2	1.17	Jan	2021
44205	Melanie Seite	Texas	Technology	Accessories	Memorex Micro Travel Drive 8 GB	31.2	3	9.75	Jan	2021
44206	Anthony Jacobs	Virginia	Office Supplies	Labels	Avery 482	2.89	1	1.36	Jan	2021
44206	Anthony Jacobs	Virginia	Furniture	Furnishings	Howard Miller 11-1/2" Diameter Ridgewood Wall Clock	51.94	1	21.3	Jan	2021
44207	Seth Vernon	Delaware	Furniture	Furnishings	DAX Value U-Channel Document Frames, Easel Back	9.94	2	3.08	Jan	2021
44209	Chris Selesnick	Louisiana	Office Supplies	Envelopes	Staple envelope	11.36	2	5.34	Jan	2021
44209	Chris Selesnick	Louisiana	Office Supplies	Envelopes	Brown Kraft Recycled Envelopes	50.94	3	25.47	Jan	2021

DASHBOARD



PIVOT TABLE

Total Penjualan		Total Penjualan di Berbagai Negara		Penjualan Per Category		Penjualan Per Sub Category		Keuntungan Per Tahun	
Sum of Sales	Row Labels	Sum of Sales	Row Labels	Sum of Sales	Row Labels	Sum of Sales	Row Labels	Sum of Profit	Column Labels
1928887.86	California	390.145.54	Furniture	622.342.10	Phones	279464.42	2021	17888.67	108210.67
	New York	246.517.74	Office Supplies	602.093.61	Chairs	277058.98	2022	108210.67	121861.73
	Texas	151.436.60	Technology	704.452.15	Storage	190679.61	2023		
	Washington	117.661.47	(blank)		Binders	169089.73	2024		
247961.07	Pennsylvania	95.494.86	Grand Total	1.928.887.86	Tables	167672.76	(blank)		
	Florida	79.303.61			Machines	166777.76			
	Illinois	68.565.03			Accessories	139241.71			
	Virginia	67.825.95			Copiers	118968.24			
	Michigan	66.559.09			Bookcases	101387.67			
	Ohio	66.407.17			Appliances	87846.1			
	Indiana	47.809.55			Furnishings	76222.69			
	Georgia	46.346.20			Paper	64529.99			
	North Carolina	37.450.27			Supplies	38554.81			
	New Jersey	29.833.01			Art	23145.5			
	Wisconsin	29.249.08			Envelopes	14717.39			
	Arizona	28.978.85			Labels	11045.55			
	Colorado	27.113.92			Fasteners	2484.93			
	Minnesota	25.069.12			(blank)				
	Kentucky	23.650.59			Grand Total	1928887.86			
	Massachusetts	23.040.06							
	Tennessee	21.227.57							
	Rhode Island	19.695.42							
	Maryland	18.580.90							

Gambar diatas merupakan visualisasi dari sebuah data yang mendekripsikan penjualan dan keuntungan

QR Code Dashboard Sales and Profit

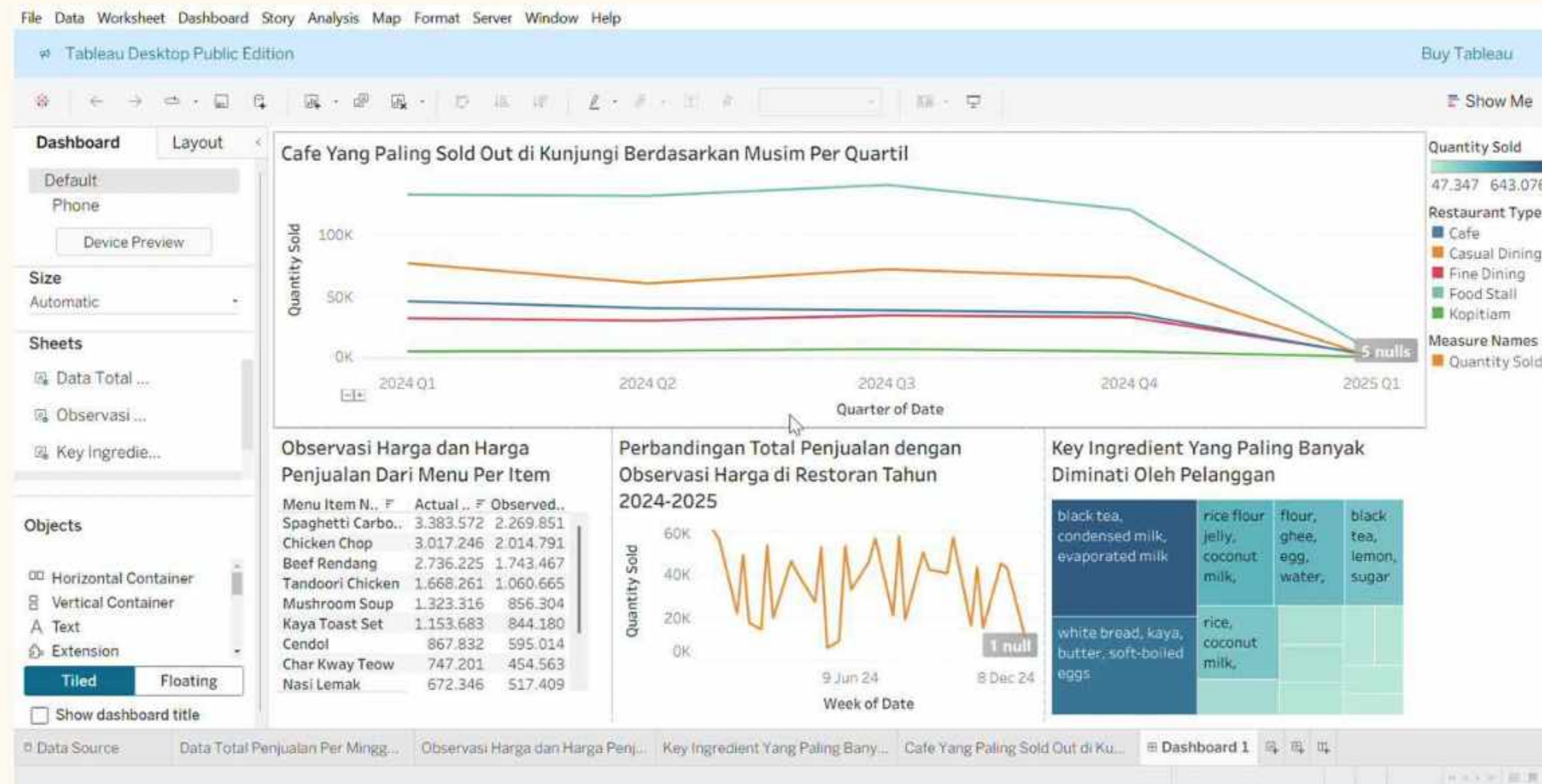


TOOLS



PROJECT VISUALIZATION DATA

DATA PENJUALAN RESTAURANT TAHUN 2024-2025



Gambar diatas merupakan visualisasi dari sebuah data yang mendeskripsikan penjualan Restaurant dari Tahun 2024-2025



TOOLS



PROJECT VISUALIZATION DATA

DATA TERBANYAK DELAY PESAWAT DI US

The screenshot shows the Tableau Desktop Public Edition interface. The main window displays the data source 'Airline_Delay_Cause (flight delay)' with 16 fields and 101315 rows. The 'Fields' list includes: Carrier, Carrier Name, Airport, City, State, Airport Name2, and Arr Delay. The data preview table shows columns for Year, Month, Date, Carrier, and Carrier Name, with data for the year 2022, month 7, and date 01/07/2022, all from Endeavor Air Inc.

Year	Month	Date	Carrier	Carrier Name
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc
2022	7	01/07/2022	9E	Endeavor Air Inc

Gambar diatas merupakan visualisasi dari sebuah data yang mendeskripsikan Pesawat delay di US



TOOLS



PROJECT VISUALIZATION DATA

DATA PERFORMA SISWA/i

The screenshot shows the Tableau Desktop Public Edition interface. The main window displays the 'StudentsPerformance' data source, which is a CSV file with 8 fields and 1000 rows. The interface shows a list of fields including Gender, Race/Ethnicity, Parental Level Of Education, and Lunch. The 'Fields' pane on the left shows the 'Gender' field selected. The 'Columns' shelf on the right shows the 'Gender', 'Race/Ethnicity', 'Parental Level Of Education', and 'Lunch' fields. The data is displayed in a table format with 10 rows visible.

Gender	Race/Ethnicity	Parental Level Of Education	Lunch
Female	Group B	Bachelor'S Degree	Standard
Female	Group C	Some College	Standard
Female	Group B	Master'S Degree	Standard
Male	Group A	Associate'S Degree	Free/Reduced
Male	Group C	Some College	Standard

Gambar diatas merupakan visualisasi dari sebuah data yang mendeskripsikan Performa Akademik Siswa/i

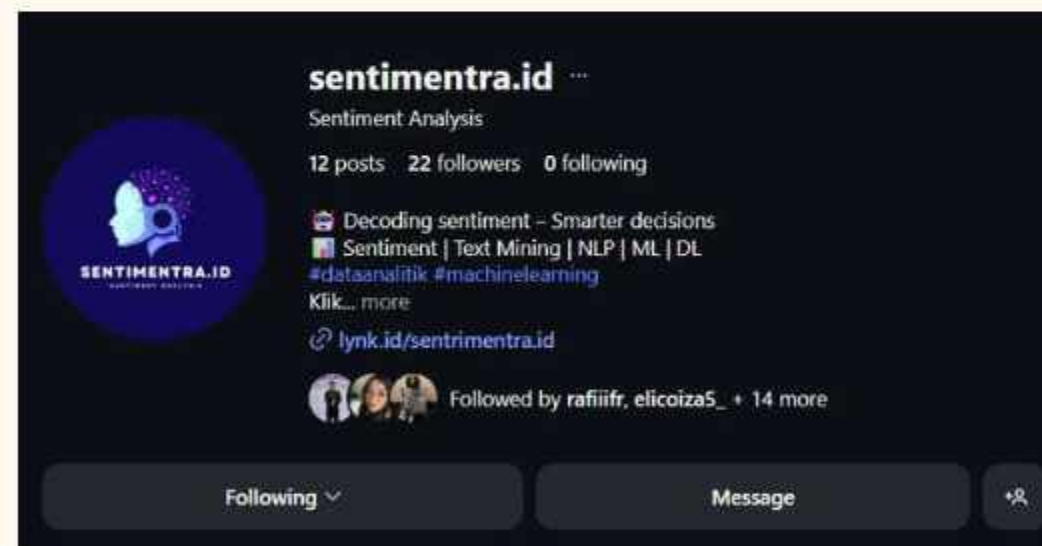


TOOLS



PROJECT BIG DATA ANALITIK

Data Sentiment, Analisis Data Using Python



QR Code Data Sentiment dan
Data Analyst



PROJECT BIG DATA ANALITIK

study Case Masjid Istiqlal - Hibrid Model (IndoBERT and ABSA Model)

3. Labelling Stages

Labelling

- 2=POTISIF
- 1=NETRAL
- 0=NEGATIF

```
def label_sentiment(stars):  
    if stars >= 4:  
        return 2 # positif  
    elif stars == 3:  
        return 1 # netral  
    else:  
        return 0 # negatif  
  
data['label'] = data['stars'].apply(label_sentiment)  
data[['text', 'stars', 'label']].head()
```

Result

	text	stars	label
0	Alhamdulillah	5	2
1	Tolong untuk badan pengelola masjid dikondisikan sudah tau ada kajian bada subuh, loh dibuka 24 jam untuk hari itu bukan ditutup begini. Kasian jamaah yang ingin menginap/tikaf di masjid apalagi yang dari jauh-jauh datang. Kecuali hari biasa di buat aturan diatas jam 22.00 tutup karena ga ada kegiatan. Ini ada agenda dan mengundang banyak jamaah malah jamaah di telantarkan.	1	0
2	Terakhir kesini waktu bulan puasa, ada acara bukber sama lauziah tiap sore	5	2
3	Subhanallah	5	2
4	Kurang banyak WC nya. Jadi antri panjang. Semoga jadi perhatian besar bagi para penanggung jawab kemakmuran masjid kita Istiqlal. Terima kasih	2	0

Labelling is used to determine whether a review falls into the positive, negative, or neutral classification

4. Clasfication with TOURQUAL Dimension

Result

```
# Tentukan Aspek dan Dimensi -----  
aspects = ["Accessibility", "Environment", "Technical Quality", "Human Element", "Experience", "Safety"]  
  
dimensi_mapping = {  
    "Accessibility": "Pelayanan",  
    "Environment": "Lingkungan",  
    "Technical Quality": "Teknis",  
    "Human Element": "Pelayanan",  
    "Experience": "Pengalaman",  
    "Safety": "Keamanan"  
}  
  
# Analisis Sentimen per Aspek -----  
results = []  
  
for _, row in tqdm(data.iterrows(), total=len(data), desc="Menganalisis Sentimen per Aspek"):  
    text = str(row[text_col])  
    masjid = row[masjid_col] if masjid_col else "Unknown"  
  
    for aspect in aspects:  
        input_text = f"Aspek {aspect}: {text}"  
        output = classifier(input_text)[0]  
  
        label_num = int(output['label'][0]) # Label 1-5  
        if label_num <= 2:  
            sent = "negatif"  
        elif label_num == 3:  
            sent = "netral"  
        else:  
            sent = "positif"  
  
        results.append({  
            "Masjid": masjid,  
            "Review": text,  
            "Dimensi": dimensi_mapping[aspect],  
            "Aspek": aspect,  
            "Label_Num": label_num,  
            "Sentimen": sent  
        })
```

Device set to use cpu
Menganalisis Sentimen per Aspek: 100% | ██████████ | 9378/9378 [3:07:15<00:00, 1.20s/it]
Contoh hasil ABSA dengan Dimensi Kategori:

Masjid	Review	Dimensi	Sentimen
0 Unknown	Alhamdulillah	Pelayanan	Netral
1 Unknown	Alhamdulillah	Lingkungan	Netral
2 Unknown	Alhamdulillah	Teknis	Netral
3 Unknown	Alhamdulillah	Pelayanan	Netral
4 Unknown	Alhamdulillah	Pengalaman	Netral
5 Unknown	Alhamdulillah	Keamanan	Netral
6 Unknown	Tolong untuk badan pengelola masjid dikondisik...	Pelayanan	Negatif
7 Unknown	Tolong untuk badan pengelola masjid dikondisik...	Lingkungan	Negatif
8 Unknown	Tolong untuk badan pengelola masjid dikondisik...	Teknis	Negatif
9 Unknown	Tolong untuk badan pengelola masjid dikondisik...	Pelayanan	Negatif

Hasil lengkap disimpan sebagai: hasil_absa_dimensi.xlsx

Clasfication TOURQUAL Dimension using the IndoBERT and ABSA models, because to classify opinions based on 6 aspects of accessibility, environment, human resources, technical quality, experience, and safety

TOOLS



PROJECT BIG DATA ANALITIK

study Case Masjid Istiqlal - Hibrid Model (IndoBERT and ABSA Model)

5. Training Data and Testing Data using 5-Cross Section

```
import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score, precision_score, recall_score, confusion_matrix

url = "https://raw.githubusercontent.com/byunlry-dev/klasifikasi/refs/heads/main/FULL%20ISTIQLAL%20REVIEW.csv"
df = pd.read_csv(url, sep=',')
df = df.dropna(subset=['text'])

X = df['text']
y = df['stars']

# Fold 1
X_test = X[0:20]
y_test = y[0:20]
X_train = X[20:100]
y_train = y[20:100]

tfidf = TfidfVectorizer()
X_train_tfidf = tfidf.fit_transform(X_train)
X_test_tfidf = tfidf.transform(X_test)

model = LogisticRegression(max_iter=1000)
model.fit(X_train_tfidf, y_train)
y_pred = model.predict(X_test_tfidf)

print("Fold 1 Results")
print("Accuracy:", accuracy_score(y_test, y_pred))
print("Precision:", precision_score(y_test, y_pred, average='weighted', zero_division=0))
print("Recall:", recall_score(y_test, y_pred, average='weighted', zero_division=0))
print("Confusion Matrix:\n", confusion_matrix(y_test, y_pred))
```

```
*** Fold 1 Results
Accuracy: 0.8
Precision: 0.64
Recall: 0.8
Confusion Matrix:
[[ 0  0  0  1]
 [ 0  0  0  1]
 [ 0  0  0  2]
 [ 0  0  0 16]]
```

Training and Testing Data using 5-cross section (repeat 5x) with 80:20 (80 training, 20 Testing)

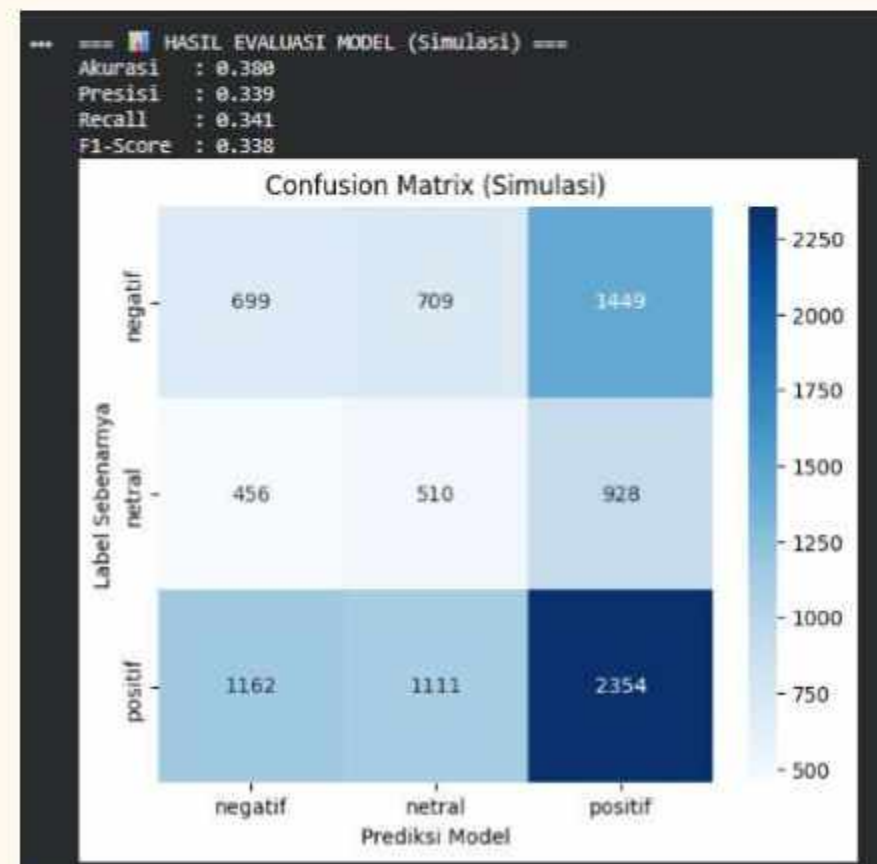
5. Confusion Matrix Measure Accuracy, Precision, and Recall

```
print("==== HASIL EVALUASI MODEL (Simulasi) ====")
print(f"Akurasi : {accuracy:.3f}")
print(f"Presisi : {precision:.3f}")
print(f"Recall : {recall:.3f}")
print(f"F1-Score : {f1:.3f}")

# Confusion Matrix
cm = confusion_matrix(df['true_label'], df['pred_label'], labels=labels)

plt.figure(figsize=(6,5))
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues",
            xticklabels=labels, yticklabels=labels)
plt.title("Confusion Matrix (Simulasi)")
plt.xlabel("Prediksi Model")
plt.ylabel("Label Sebenarnya")
plt.show()
```

Confusion Matrix used to measure accuracy, precision, and recall



TOOLS



PROJECT BIG DATA ANALITIK

Study Case Jobstreet Apps- Hibrid Model (IndoBERT and Topic Modelling)

1. Pip Install G-Playstore Scraper

```
!pip install google-play-scraper  
  
Collecting google-play-scraper  
  Downloading google_play_scraper-1.2.7-py3-none-any.whl.metadata (50 kB)  
    ----- 50.2/50.2 kB 1.6 MB/s eta 0:00:00  
  Downloading google_play_scraper-1.2.7-py3-none-any.whl (28 kB)  
  Installing collected packages: google-play-scraper  
  Successfully installed google-play-scraper-1.2.7
```

```
from google_play_scraper import reviews, Sort  
  
# Package JobStreet  
app_id = 'com.jobstreet.jobstreet'  
  
def get_reviews(app_id, lang='id', count=10000, sort=Sort.NEWEST,  
               filter_score_with=None, filter_device_with=None, continuation_token=None):
```

Result

	Review ID	Username	Rating	Review Text	Date
0	f8529f31-0393-4def-bf5e-d28cf1a7dc5b	Pengguna Google	1	dari tahun 2022 - 2025 belum pernah sekalipun ...	2025-11-29 03:30:43
1	93ef22d0-6d73-44f7-a7ec-23cc9303b66f	Pengguna Google	3	mantap	2025-11-29 03:09:50
2	1396b619-fdbd-4ba0-a9a1-e6f09046ee2e	Pengguna Google	5	very good app, hope this app helping me for work	2025-11-29 01:59:57
3	b2054228-074c-4736-9094-a89ee05fe244	Pengguna Google	1	Fake vacancy, dah kirim ratusan, interview 1 p...	2025-11-28 21:21:01
4	dee206c6-1732-4792-ace9-1809050e7036	Pengguna Google	1	jadi app dengan penipuan loker paling banyak 😞	2025-11-28 15:39:23
...
9995	802210c1-d2f1-430d-a211-642c1b1546f9	Arif Budiman	5	KASIH KERJA DONG	2023-06-22 13:04:41
9996	fabb82ed-1aa7-46e6-8eae-6f532c66b451	dede ahmad Mulyana	5	Mantap...update	2023-06-22 12:23:11
9997	5306d026-3404-4766-bfbc-e5adeaefa6c1	Jodi kuhibiniu	5	Bagus	2023-06-22 11:24:57
9998	1832f08b-8fd6-4ede-8fbf-e6181898d9f9	udin saepudin	5	memudahkan untuk mencari loker	2023-06-22 10:30:06
9999	fe6d439e-5a2c-4ef8-aba5-3b260d2adc14	Sumarno Sumarno	5	Sangat bagus	2023-06-22 09:45:55

10000 rows x 5 columns

Scraping is used to request data reviews on Playstore

2. Pre-processing Stages

```
df = pd.read_csv("ulasan_jobstreet.csv", encoding="utf-8")  
  
# Samakan nama kolom agar konsisten  
df = df.rename(columns={  
    "Review ID": "ReviewID",  
    "Review Id": "ReviewID",  
    "Review Text": "ReviewText",  
    "content": "ReviewText",  
    "Content": "ReviewText",  
})  
  
# Ambil hanya 2 kolom  
df2 = df[["Rating", "ReviewText"]]  
  
df2.head()
```

Result

	Rating	ReviewText
0	1	dari tahun 2022 - 2025 belum pernah sekalipun ...
1	3	mantap
2	5	very good app, hope this app helping me for work
3	1	Fake vacancy, dah kirim ratusan, interview 1 p...
4	1	jadi app dengan penipuan loker paling banyak 😞

TOOLS



PROJECT BIG DATA ANALITIK

Study Case Jobstreet Apps- Hibrid Model (IndoBERT and Topic Modelling)

3. Labelling Sentimen

```
# Load data ulasan JobStreet
df = pd.read_csv("ulasan_jobstreet.csv", encoding="utf-8")

# Fungsi memberi label sentimen 2/1/0
def label_sentimen(teks):
    if pd.isna(teks) or teks.strip() == "":
        return 1 # netral

    polarity = TextBlob(teks).sentiment.polarity

    if polarity > 0:
        return 2 # positif
    elif polarity < 0:
        return 0 # negatif
    else:
        return 1 # netral
```

Result

	Review Text	Rating	label_sentimen
0	dari tahun 2022 - 2025 belum pernah sekalipun ...	1	1
1	mantap	3	1
2	very good app, hope this app helping me for work	5	2
3	Fake vacancy, dah kirim ratusan, interview 1 p...	1	0
4	jadi app dengan penipuan loker paling banyak 😞	1	1

Labelling is used to determine whether a review falls into the positive, negative, or neutral classification

4. Classification with SERVQUAL Dimension

```
# 2. Daftar kata kunci SERVQUAL
keywords = {
    "tangibles": [
        "ui", "design", "tampilan", "interface", "fitur",
        "bug", "error", "lamb", "load", "loading", "crash"
    ],
    "Reliability": [
        "akurasi", "tepat", "valid", "informasi benar",
        "tidak akurat", "palsu", "fake", "scam"
    ],
    "Responsiveness": [
        "respon", "balas", "cepat", "lambat",
        "tidak merespon", "customer service", "cs"
    ],
    "Assurance": [
        "aman", "keamanan", "privasi", "percaya",
        "penipuan", "data bocor", "keamanan data"
    ],
    "Empathy": [
        "peduli", "ramah", "membantu", "support", "bantu saya",
        "mengerti", "sopan"
    ]
}
```

Result

	Review Text	servqual_aspect
0	dari tahun 2022 - 2025 belum pernah sekalipun ...	Tidak Terdeteksi
1	mantap	Tidak Terdeteksi
2	very good app, hope this app helping me for work	Tidak Terdeteksi
3	Fake vacancy, dah kirim ratusan, interview 1 p...	Reliability
4	jadi app dengan penipuan loker paling banyak 😞	Assurance

Classification Dimension using the **SERVQUAL** and **Topic Modelling** models, because to classify opinions based on 5 aspects

TOOLS



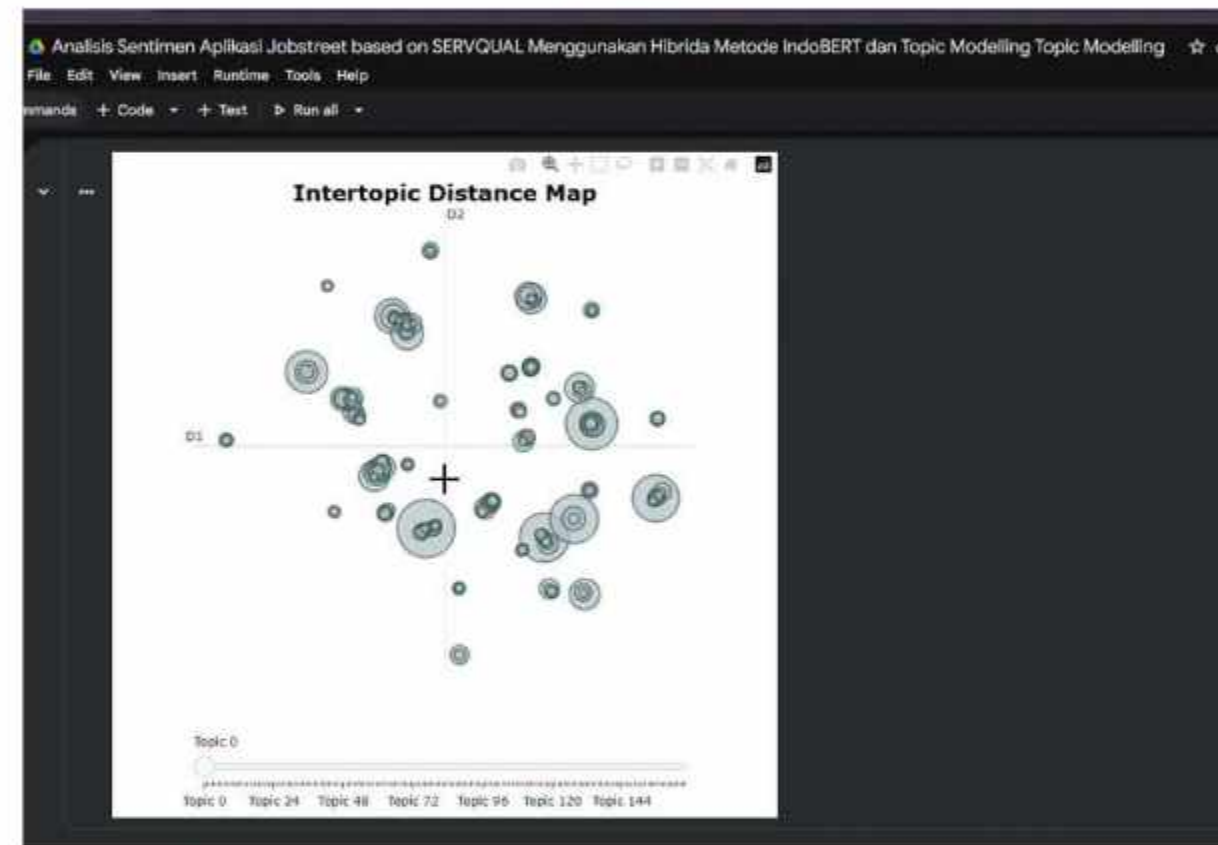
PROJECT BIG DATA ANALITIK

Study Case Jobstreet Apps- Hibrid Model (IndoBERT and Topic Modelling)

6. Topic Modelling

```
# -----  
# 3. EMBEDDING MODEL  
# -----  
embedding_model = SentenceTransformer("all-MiniLM-L6-v2")  
  
# -----  
# 4. FIT BERTopic  
# -----  
topic_model = BERTopic(  
    embedding_model=embedding_model,  
    verbose=True,  
    min_topic_size=10, # bisa kamu ubah  
)  
  
topics, probs = topic_model.fit_transform(texts_clean)  
  
# Simpan hasil  
df["topic"] = topics  
df.to_csv("jobstreet_topics.csv", index=False, encoding="utf-8")
```

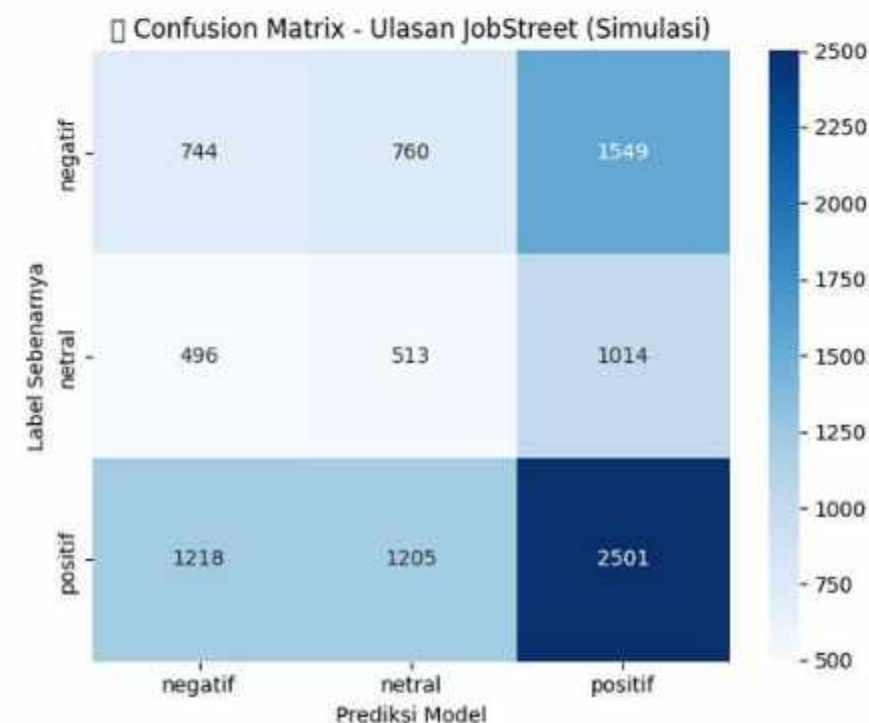
Result



Topic Modeling to find out topics/keywords that are frequently discussed by users

7. Confusion Matrix (Accuracy, Precision, and Recall)

```
print("==== 📊 HASIL EVALUASI MODEL (Simulasi) ====")  
print(f"Akurasi : {accuracy:.3f}")  
print(f"Presisi : {precision:.3f}")  
print(f"Recall : {recall:.3f}")  
print(f"F1-Score : {f1:.3f}\n")  
  
# ----- 📄 Laporan klasifikasi per kelas -----  
print("==== 📄 Laporan Klasifikasi Per Kelas ====")  
report = classification_report(df['true_label'], df['pred_label'], target_names=labels, output_dict=True)  
report_df = pd.DataFrame(report).transpose()  
print(report_df)  
  
# ----- 📊 Visualisasi Confusion Matrix -----  
cm = confusion_matrix(df['true_label'], df['pred_label'], labels=labels)  
  
plt.figure(figsize=(6,5))  
sns.heatmap(cm, annot=True, fmt="d", cmap="Blues",  
            xticklabels=labels, yticklabels=labels)  
plt.title("📊 Confusion Matrix - Ulasan JobStreet (Simulasi)")  
plt.xlabel("Prediksi Model")  
plt.ylabel("Label Sebenarnya")  
plt.tight_layout()  
plt.show()
```



Confusion Matrix used to measure accuracy, precision, and recall

TOOLS



PROJECT MANAGEMENT-UI DESIGN WORK

Tools Used:



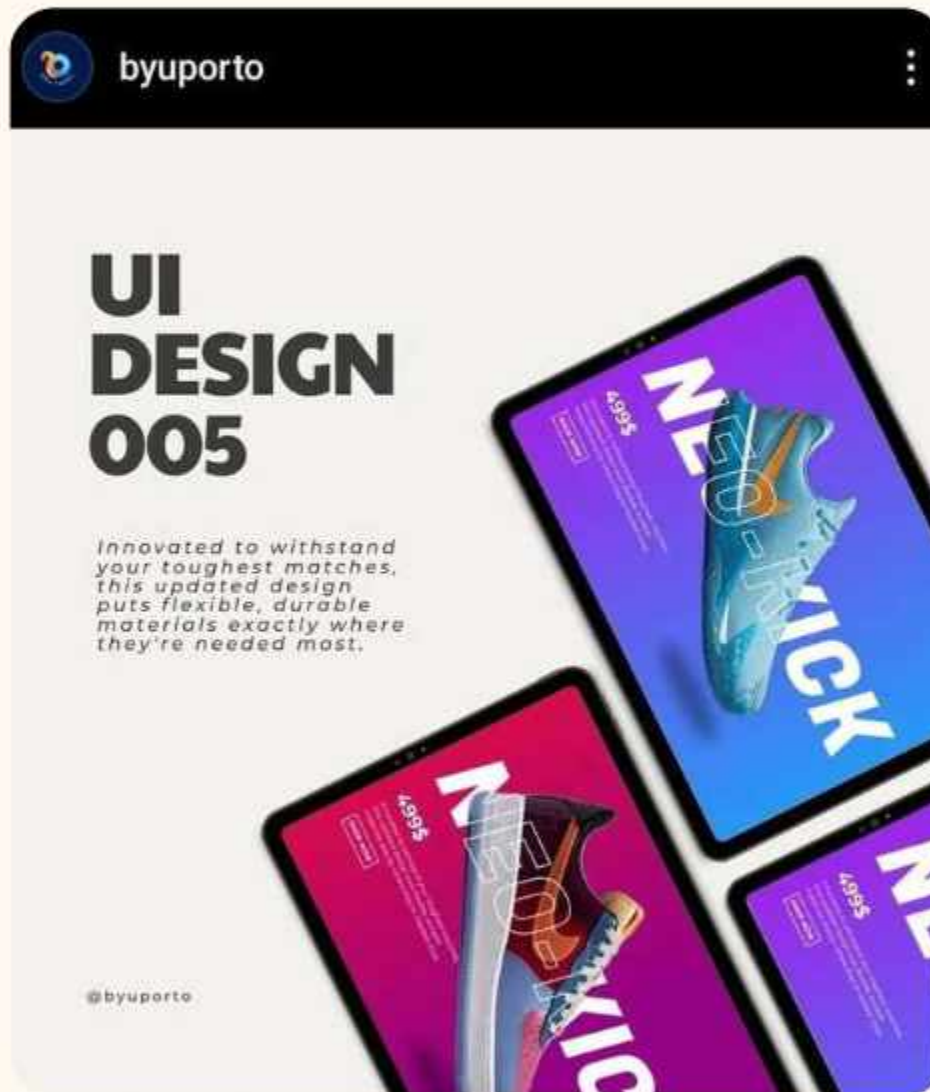
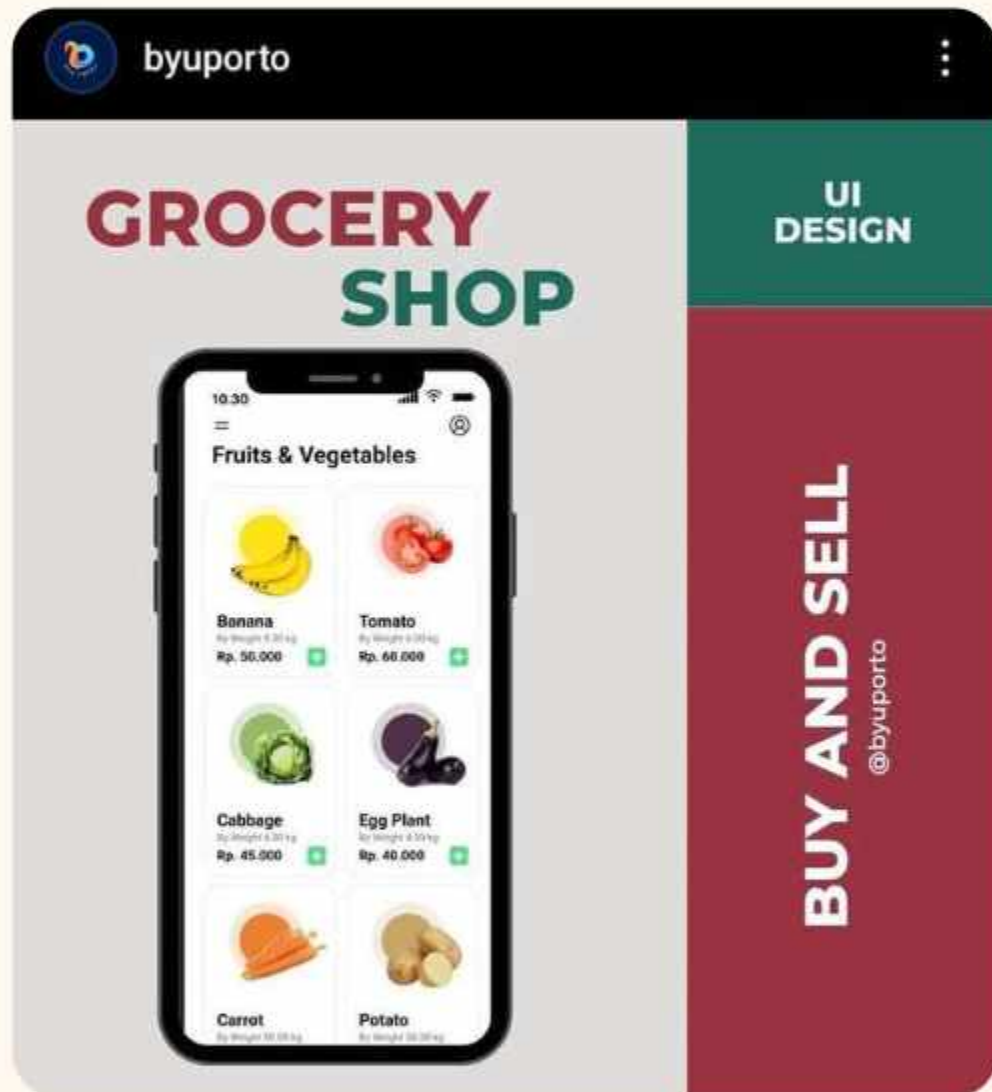
figma ticketing



figma grocery shopping



PROJECT MANAGEMENT-UI DESIGN WORK



[Design Figma](#)



SESSION TALKS WITH



Sharing Information about Beasiswa BI



Sharing session Entrepreneur in FEB



Sharing session with Tax Center



Mentoring Scholarship



Sharing Knowledge UMK Malaysia X Tel-U



Sharing Tips and Trik KTI and Essay

ORGANIZATION EXPERIENCE

GENBI TELKOM UNIVERSITY

CO-Director Departmen Economic Creatif

Oktober 2024-Agustus 2025

- Assist the Head of Department in planning, coordinating, and evaluating creative economy programs
- Support the evaluation process of departmental activities and assist in preparing accountability reports
- Assist in managing and compiling accountability reports for programs under the Creative Economy Division



GENBI TELKOM UNIVERSITY



VOLUNTEER EXPERIENCE

ADMISI PEMASARAN SMB Telu

Talent Photoshoot

Juli 2024-Agustus 2024

- Engaging in photography for Telkom University's marketing efforts, as part of branding endeavors, involves talent photoshoot
- Talent photoshoot can be utilized to represent diverse backgrounds, cultural diversity
- other forms of diversity within the university environment

Telkom University

LO PKKMB

Juli 2023-September 2023

- Deliver information about the event schedule, rules, and regulations of PKKMB
- Monitor the participation of new students in various activities





HONORS AND AWARDS

Analysis of Tourist Perceptions of Islamic Religious Tourism in Java Island Based on Tourism Quality (TOURQUAL) Dimensions Using IndoBERT and ABSA Model

Bayu Nalury
School of Economics and Business Telkom University
Telkom University
Bandung, Indonesia
bayunalury@student.telkomuniversity.ac.id

Herry Inawan
School of Economics and Business Telkom University
Telkom University
Bandung, Indonesia
herryin@telkomuniversity.ac.id

Abstract—Islamic religious tourism holds significant potential as a driver of national economic growth, particularly on Java Island. However, the evaluation of religious tourism quality based on online reviews is still rarely conducted using a structured analytical approach. Although sentiment analysis has been widely applied in various sectors, the integration of Indonesian language models with the Tourism Quality (TOURQUAL) framework remains underexplored in this context. This study proposes a hybrid analytical model integrating Aspect-Based Sentiment Analysis (ABSA) with IndoBERT and classifying results using the six Tourism Quality (TOURQUAL) dimensions: Accessibility, Environment, Technical Quality, Human Element, Experience, and Safety. The approach is applied to online reviews of five major mosques on Java Island: Istiqlal Mosque, Al-Jabbar Mosque, At-Ta'awun Mosque, Namira Lamongan Mosque, and Surakarta Palace Grand Mosque. The findings reveal several negative evaluations that significantly influence tourist perceptions across multiple service dimensions, providing a structured basis for improving religious tourism service quality and supporting Indonesia's efforts to achieve SDG 12.

Keywords—Sentiment Analysis, IndoBERT, Aspect Based Sentiment Analysis (ABSA), Religious Tourism, Tourism Quality (TOURQUAL).

I. INTRODUCTION

Industry 4.0 and the rapid development of social media have made it easier for the public to share information online, including providing feedback on a service or product [1]. Social media has also changed marketing patterns, especially in the tourism sector, where traditional marketing methods have begun to shift toward electronic Word of Mouth (e-WOM). E-WOM is understood as the public's perspective in sharing experiences, information, and emotional responses through online platforms (e.g., Google Maps Review) [2]. The digital footprints left by tourists through these reviews have become an increasingly important source of information for understanding their perceptions [3]. Therefore, positive or negative comments in digital reviews can be considered in assessing the image of a destination [2][3].

Java Island is one of the largest economic centers in Indonesia. Various tourist destinations in this region are among the most frequently visited, including religious tourism sites that receive a high number of reviews on the Google

Maps platform [4]. This phenomenon indicates that Java Island offers good quality tourism services. Such service quality is an important factor in attracting tourist interest [4].

Various studies have examined tourists' interests in choosing destinations. However, data collection still largely relies on traditional methods such as surveys, even though these methods have several limitations. Conventional approaches require high costs, take considerable time, and are prone to respondent bias [5]. This condition can reduce the accuracy of measurements and limit a deeper understanding of tourist behavior. With the emergence of social media, data collection has become much more effective [5][6]. Social media enables real-time and large-scale information gathering, making the results more relevant for analyzing tourists' interests, preferences, and behavioral patterns across different destinations [6].

Research on tourist sentiment and perception using the Tourism Quality (TOURQUAL) framework in religious tourism is still limited. Digital reviews in text form are used to analyze tourists' experiences, satisfaction, and complaints, which are difficult to obtain through traditional data. The main challenge arises from the text structure during the classification process of TOURQUAL dimensions. Review data can be used to identify service weaknesses. In addition, this data helps understand tourists' expectations and serves as a basis for improving destination management, thereby enhancing service quality [7].

Digital reviews serve as an important consideration for tourists when choosing a destination. A hybrid model approach, such as sentiment analysis and multi-class text classification based on the TOURQUAL framework (IndoBERT and ABSA) is effective for analyzing tourists' interests from the perspective of service quality [8]. This approach can identify service aspects that are favored by tourists and serve as a basis for improving aspects that are less preferred.

This study analyzes tourist sentiment using the six TOURQUAL dimensions and evaluates the hybrid IndoBERT-ABSA model with cross-validation. The results offer key insights into tourist perceptions and guide improvements for religious tourism in Java Island.

Conference

Paper title (details)

Status

COMNETSAT
2025

Analysis of Tourist Perceptions of Islamic Religious Tourism in Java Island Based on TOURQUAL Dimensions Using IndoBERT and ABSA Model

Accepted

Dear Ms. Bayu Nalury,

PAPER ID : #1571221304,

PAPER TITLE: Analysis of Tourist Perceptions of Islamic Religious Tourism in Java Island Based on TOURQUAL Dimensions Using IndoBERT and ABSA Model

Congratulations! The COMNETSAT 2025 Technical Program Committee has completed the review process on your papers and we are pleased to inform you that the manuscript listed above has been ACCEPTED.

HONORS AND AWARDS

New Awardee of GenBI
Telkom University

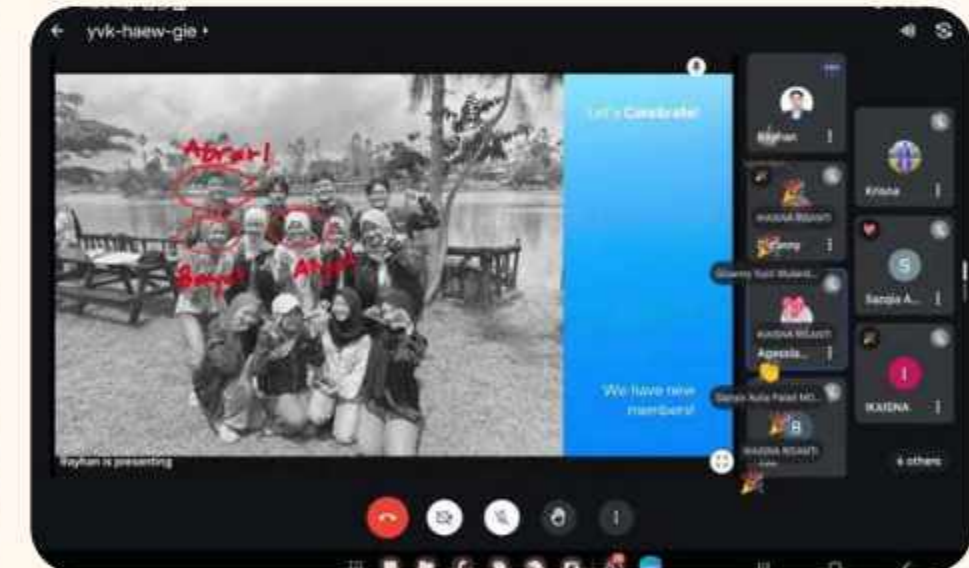
Program Sarjana

Ardhian Wisnu Kartika	1101213270
Ni Komang Mei Trisnawati	1201220072
Alya Selynindya	1305210079
Syahreza Adnan Al Azhar	1302223041
Muhammad Abrar Triyadi	1305213046
M Naufal Hafizh Jatsono	1303223041
Betris Yosevanny	1605210050
Marsa Salsabila	1401223167
Jihan Farida Putri	1502223272
Bayu Nalury	1401223315

Program Diploma

Zidan Sulaeman	6703213049
----------------	------------

Central Bank of Indonesia Scholarship Awardee
Bank Indonesia



I am a recipient of the Bank Indonesia scholarship for 2024 and have participated in various programs such as **upgrading, workshops, and others.**

HONORS AND AWARDS



id/telkom-university-gelar-awarding-mahasiswa-berprestasi-2025-rayakan-semangat-dan-prestasi-anak-bangsa/



Prestasi

Bandung, 18 Juni 2025 – Telkom University (Tel-U) kembali menggelar ajang bergengsi Pemilihan Mahasiswa Berprestasi (Pilmapres) Tingkat Universitas Tahun 2025 yang diselenggarakan pada Selasa (17/6) di Gedung Graha Caca, Tel-U. Kegiatan ini menjadi panggung apresiasi bagi mahasiswa-mahasiswi terbaik dari seluruh fakultas dan kampus Telkom University Bandung, Surabaya, hingga Purwokerto.

Sebanyak 32 mahasiswa terpilih telah menjalani rangkaian seleksi intensif selama empat hari, mulai tanggal 14

Berita Terkini

Telkom University Gelar Awarding Mahasiswa Berprestasi 2025, Rayakan Semangat dan Prestasi Anak Bangsa

Kunjungan Industri ke PT GMF AeroAsia Mahasiswa FRI Telkom University Peleajar Penerapan Reverse Engineering

Penasaran Biaya Hidup Mahasiswa Rantau di Bandung? Ini Rinciannya

Lulus UTBK SNBT? Pelajari Pengembalian Dana Pendidikan Telkom University

Seleksi Pemilihan Mahasiswa Berprestasi Tahun 2025
PILMAPRES 2025



HONORS AND AWARDS

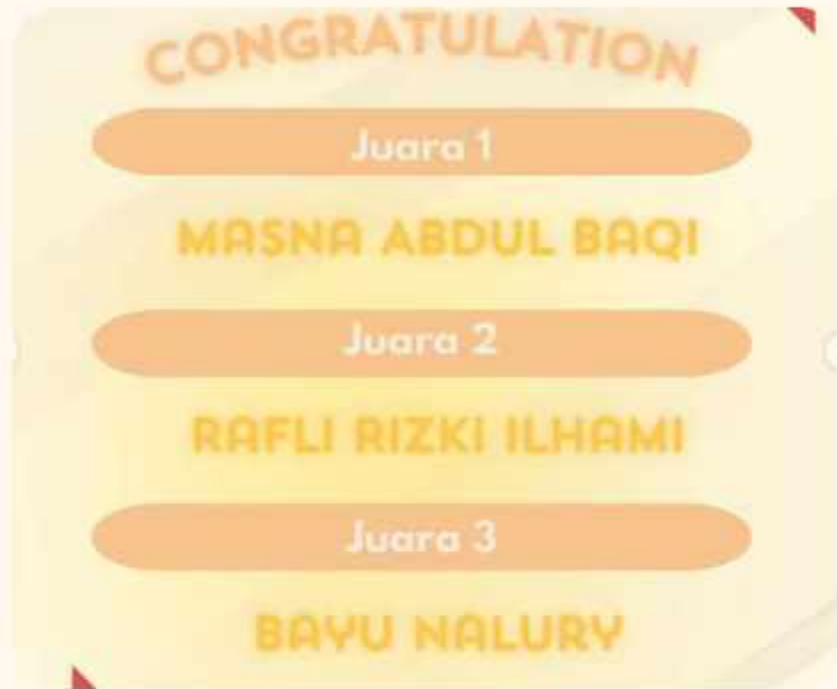


Nutrifood Leadership Award 2025

HONORS AND AWARDS



1st Winner Essay Competition
ERP Laboratory 2024



3rd Winner Economics Internal Competition
TAX Center X Himaku



1st Winner Essay Competition
Search Telkom University X Training Essay



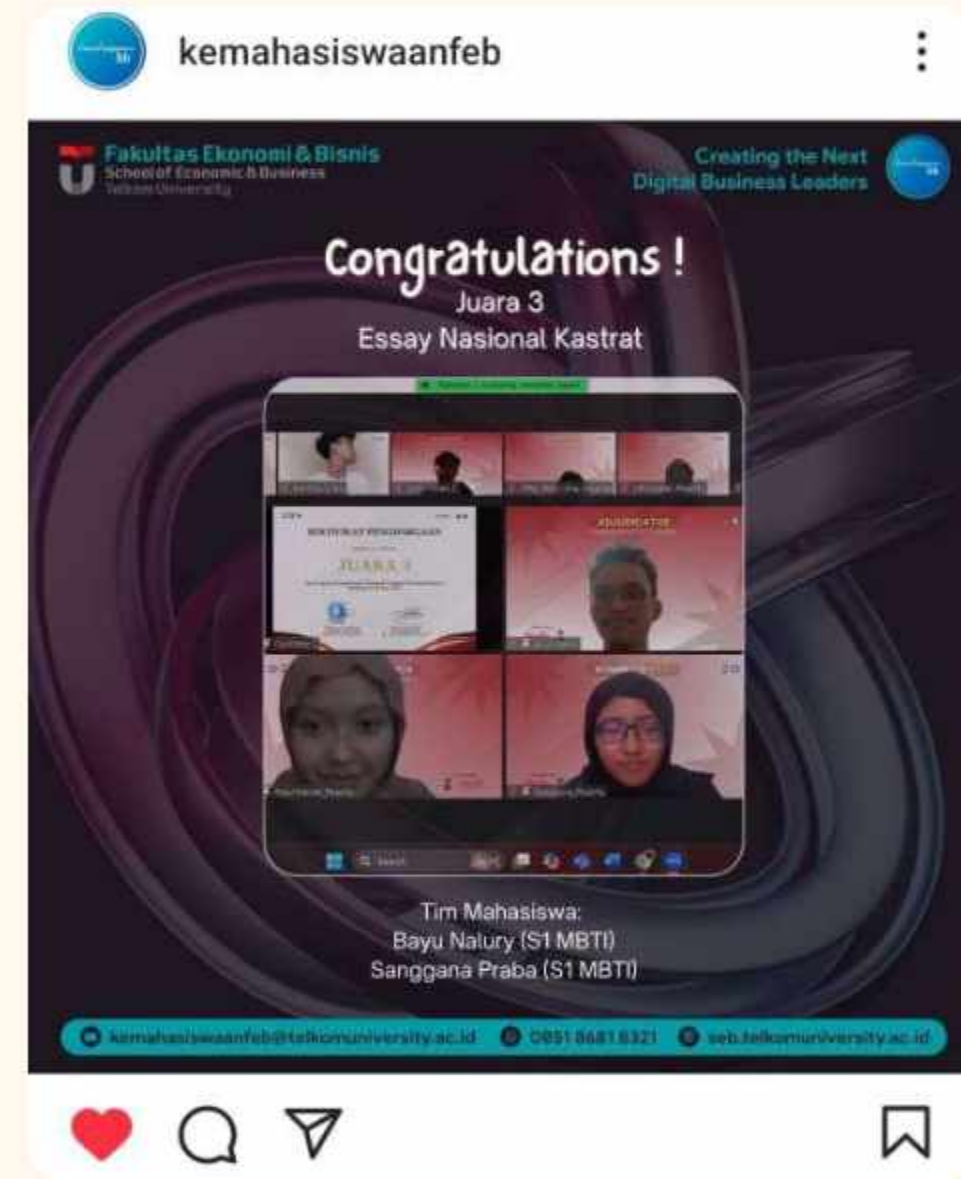
HONORS AND AWARDS



3rd Winner National Essay Competition
UPN Veteran Yogyakarta



1st Runner Up and Publications National Grand Essay
Mulawarman University



3rd Winner National Essay KASTRAT
BEM FEB Telkom University



HONORS AND AWARDS

SEARCH ETERNITY

2 **2ND PLACE**
TRIO TEAM

SYAFIRA PUSPITA PUTRI

BAYU NALURY **INDIRA FEBRI MAHARANI**

TESTIMONIALS

Insightfull mengenai pemaparan materi tata cara menjuarai bidang lomba essay, selain itu seru karna **dapat ilmu yang belum pernah di dapat sebelumnya**. Sesi pemaparan juga **seru banget**, mentornya telaten dalam melatih mentee. - Bayu

SEARCH TELKOM UNIVERSITY @igd342tc searchtelkomunv search.telu

2nd Winner Essay Competition
CR Youth

PENGUMUMAN LOLOS SELEKSI INTERNAL PROPOSAL KBMK TELKOM UNIVERSITY 2024

No	Divisi	Nama Tim	Nama Lengkap	NIM	Prodi
1	Bidang Penulisan Karya Tulis Ilmiah	Halal Team	Sabna Nurul Hasanah	1401223359	S1 MBTI
2	Bidang Perencanaan Bisnis	The Clover	Natasya Edwina	1401210415	S1 MBTI
3	Bidang Perencanaan Bisnis	Quantumqueen team	Bayu Nalury	1401223315	S1 MBTI
4	Bidang Keuangan Audit Investigatif	ROUSA	Alvin Zikro	1402213022	S1 Akuntansi
5	Bidang Riset Investasi	Timses_ilmu padi	M. Farhan Baihaki	1402210028	S1 Akuntansi

Bandung, 28 April 2024
Kepala Bagian Prestasi dan Kegiatan Mahasiswa
Telkom University
Dr. Edy Wibowo, S.Si., M.Sc.
NIP: 14860038

Top 5 Selection Internal Student Competition
Business, Management and Finance (KBMK)

#1 Quartal MVP
Co-Director of Department

Arcadia Impactio!

Bayu Nalury
Co-Director of Creative Economy

++ ARCADIA ++

@ genbi_telu GenBI Telkom University genbitelu

Nominate Wakil Ketua Departemen of Triwulan
GenBI Tel-U

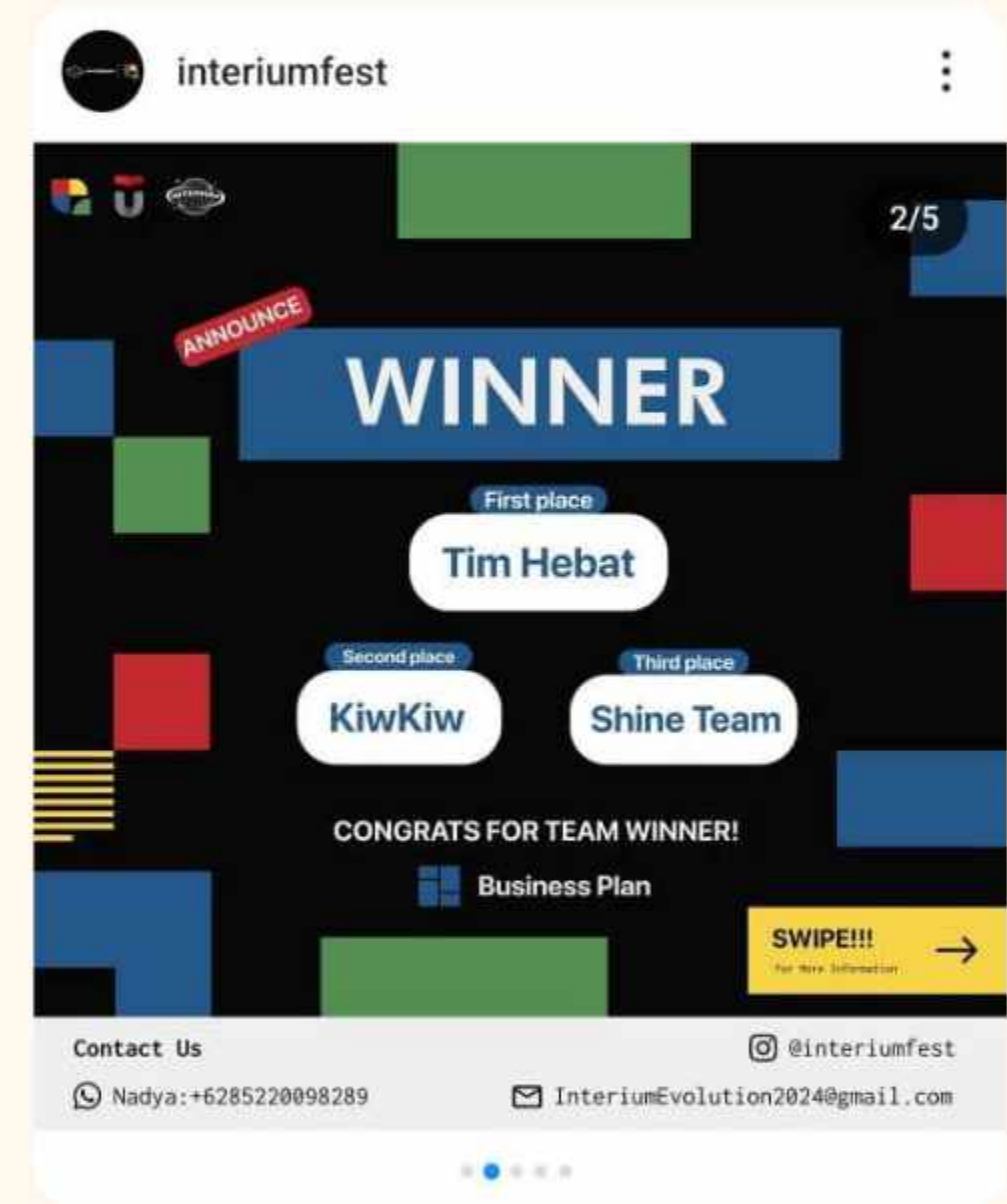
HONORS AND AWARDS



1st Winner Essay Competition
Tax Center X HIMAKU



Nominate Best Essay Profesi Keuangan Expo
Kementerian Keuangan



3rd Winner National Business Plan Competition
Interium Evolution HMIT

HONORS AND AWARDS



3rd Winner National UI/UX Competition
Al-Fath FRI

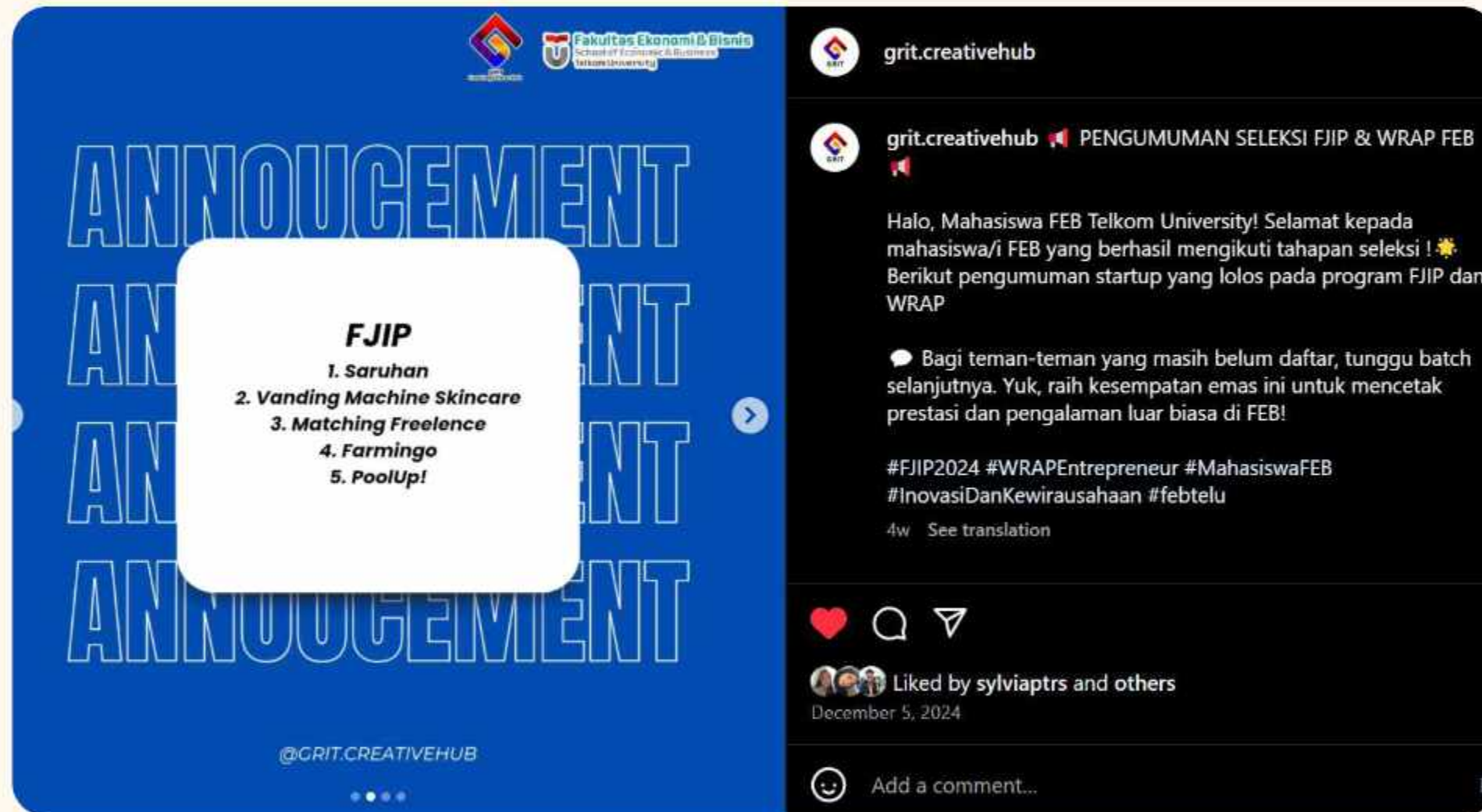


3rd Winner Diorama Competition
Dictum FKS

NO	NAMA TIM	INSTANSI PENDIDIKAN
1	ELANG	TELKOM UNIVERSITY
2	GOLDEN TEAM	TELKOM UNIVERSITY
3	TIM EKOLOGI	UNIVERSITAS GAJAH MADA
4	THE KOIS	INSTITUT TEKNOLOGI BANDUNG

Finalist International Festival of Business Administration
IEFBA Competition

HONORS AND AWARDS



Award FJIP Startup Incubations Programme
Pra Incubations Programs



Glowcycle Team (Vending Machine Skincare)
Bandung Techno Park

HONORS AND AWARDS



Top 10 Finalist
CEst X Universitas Negeri Yogyakarta



CREATIVE ENTREPRENEUR SUMMIT
 PENGUMUMAN
 Nomor : 04.003/DKMM/VI/2024
 Tentang :
 PEMEREA LOGO SELEKSI TAHAP II (PROPOSAL DAN VLOG PITCH)
 CREATIVE ENTREPRENEUR SUMMIT 2024

NO	NAMA TIM	BIYANG KUMBU	JUDUL BUSINESS PLAN COMPETITION	TOTAL SKOR AI	ABT
1	THE 64024	Wahyuni Vania Fadhila Azzahra Fadhila Kharis JESSY	Carab'Carab'	99.5	Tidak Lolos
2	IMHO UGAM	Wahyuni Vania Khalida (I.S.)	Wahyuni Vania Kharis (Himpun) Wahyuni Vania Kharis (Himpun) Wahyuni Vania Kharis (Himpun) Wahyuni Vania Kharis (Himpun)	75.0	Tidak Lolos
3	THE 64024	Wahyuni Vania Khalida (I.S.)	COOQA	91.5	Lolos
4	3.444	Wahyuni Vania Khalida (I.S.)	Spesies	86.5	Tidak Lolos
5	Harmoni Team	Wahyuni Vania Fadhila Azzahra Fadhila Kharis JESSY	Carab'Carab' (Himpun) Wahyuni Vania Kharis (Himpun) Wahyuni Vania Kharis (Himpun) Wahyuni Vania Kharis (Himpun)	86	Lolos
6	StarBlack	Wahyuni Vania Khalida (I.S.)	StarBlack: Building a Sustainable Business for Women Growth	72.5	Tidak Lolos
7	MR 2024	Wahyuni Vania Fadhila Azzahra Fadhila Kharis JESSY	StarBlack: Building a Sustainable Business for Women Growth	86.5	Tidak Lolos
8	CAJAM	Wahyuni Vania Khalida (I.S.)	STAR DECIBEL	72.0	Tidak Lolos
9	Cherry 1.01 Glow Team	Wahyuni Vania Khalida (I.S.)	StarBlack: Building a Sustainable Business for Women Growth	76.5	Tidak Lolos

3rd Highest Scoring Proposal and Vlog Pitch
CEst X Universitas Negeri Yogyakarta



HONORS AND AWARDS



Latihan Keterampilan Manajemen Mahasiswa Tingkat Dasar hingga Menengah (**LKMM-TD dan LKMM-TM**) adalah program pelatihan yang bertujuan untuk membekali mahasiswa dengan keterampilan manajerial dalam organisasi.




DIREKTORAT KEMAHASISWAAN, PENGEMBANGAN KARIER DAN ALUMNI
UNIVERSITAS TELKOM

SERTIFIKAT

Nomor: 185/KMH/01/KMH/2025
Diberikan kepada
Bayu Nalury
sebagai Peserta Latihan Keterampilan Manajemen Mahasiswa Tingkat Dasar (LKMM-TD) yang dilaksanakan pada 10 - 11 Februari 2025, dan dinyatakan:

LULUS

Mengetahui,
Wakil Rektor Bidang Admisi, Kemahasiswaan dan Alumni



DIDA DIAH DAMAJANTI
NIP. 94700007

Bandung, 11 Februari 2025
Direktur Kemahasiswaan, Pengembangan Karier dan Alumni



DESY DWI NURHANDAYANI
NIP. 07800067






LATIHAN KETERAMPILAN MANAJEMEN MAHASISWA TINGKAT DASAR (LKMM-TD)

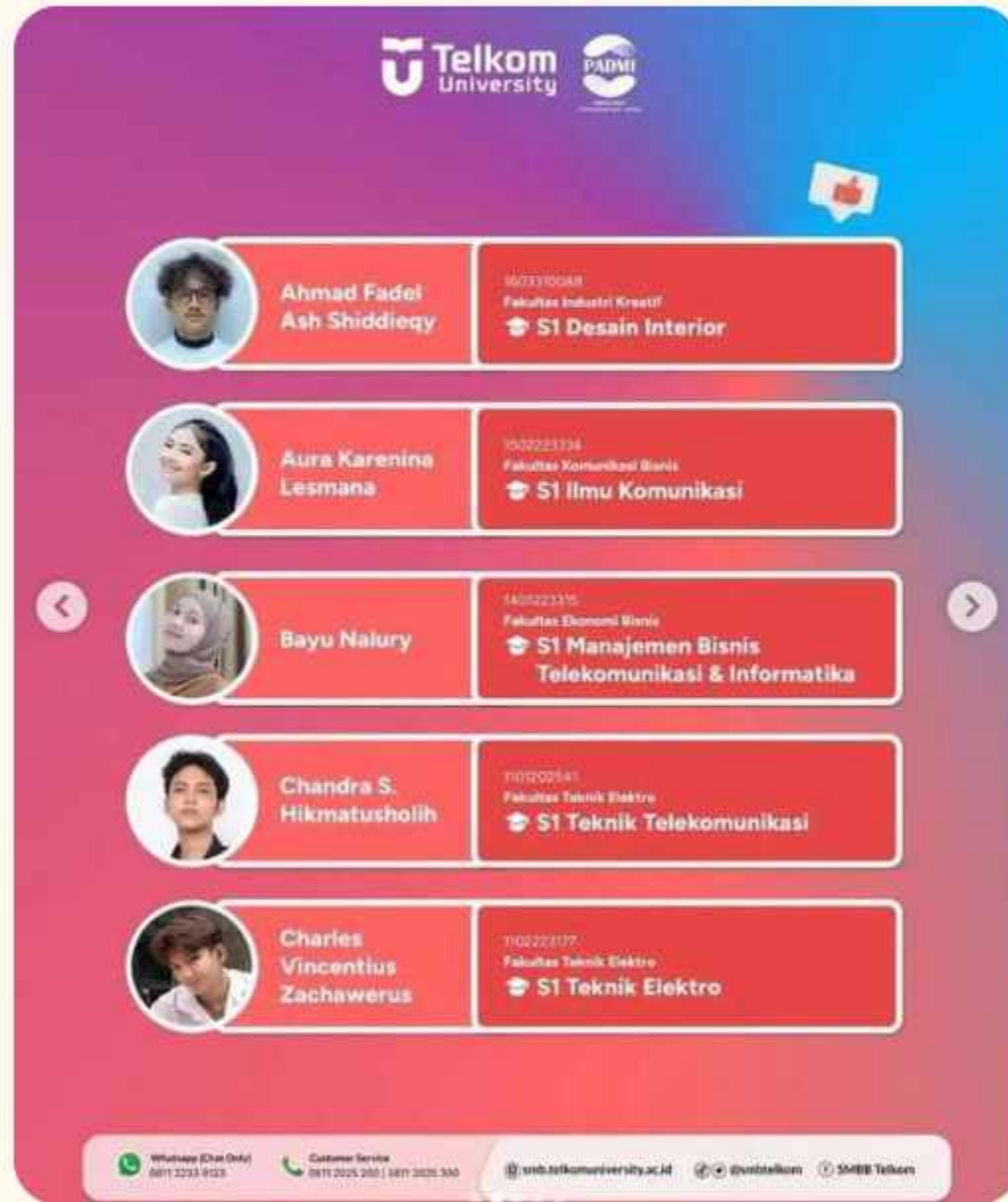
Materi	Jam Kerja
Perumusan Gagasan Awal	4 Jam
Penjabaran Rencana Kerja dan Kepentingan	10 Jam
Administrasi	4 Jam
Pengendalian Motivasi	5 Jam
Pengembangan Program Kerja	5 Jam
Berbagi Pengalaman Model Usulan dan Pelaksanaan Kegiatan	1 Jam
Arah Kebijakan Organisasi Kemahasiswaan di Telkom University	1 Jam
Mahasiswa Telkom University dan Tantangan Indonesia Emas	1 Jam
Nasionalisme dan Bela Negara	2 Jam
Multikultur dan Modernisasi Beragama	2 Jam
Total	35 Jam

SAK KOLEKTIF

100% TELKOM

100% BERKUALITAS

HONORS AND AWARDS



Photoshoot Talent SMB Telkom University
SMB Telkom University



Certificate Photoshoot Talent SMB Telkom University
SMB Telkom University



HONORS AND AWARDS

No	Nama	Program Studi	Fakultas
1	BAYU NALURY	S1 Manajemen	FEB
2	NAJMI KHAERUNISA	S1 Administrasi Bisnis	FEB
3	VIARDHA ALIFA SUHARTONO	S1 Manajemen	FEB
4	JIHAN AGILA SYAFIRA	S1 Administrasi Bisnis	FEB
5	XHAVIRA CLARA ZAHRA	S1 Ilmu Komunikasi	FKS
6	ERFAN FERDIANTO	S1 Informatika	FIF
7	CAHYA RIZQI SYAH MAULANA	S1 Teknologi Informasi	FIF
8	ALIFYA SAFIRA AKHRAM	S1 Teknologi Informasi	FIF

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Akhirnya, momen yang ditunggu-tunggu telah tiba! Kami dengan bangga mengumumkan para TelUtizen terpilih yang siap menjadi wajah inspiratif Open Library tahun ini. Terima kasih atas antusiasme, semangat, dan kontribusi luar biasa dari semua peserta!

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3h See translation

Liked by upaaa07 and others
3 hours ago

Add a comment... Post

Ambassador Oplib
Oplib Tel-U



HONORS AND AWARDS



Publishing Article "Seni Mengeluh: Ekspresi Diri Atas Ketidaksempurnaan" by **AKSARA Telkom University**



Publications Antology Book "Hustle Culture"



Publishing Article "Paripurna" by **AKSARA Telkom University**



CERTIFICATION BNSP



**Certification BNSP Public Speaking
With GenBI Jabar**

REKOMENDATIONS



Daffa Muhammad Zulfikar · Ke-1

Software Engineer Intern @ Bank Indonesia | President of Student English Society (SES) | IISMA 2024 Awardee and Student Representative of NTU Singapore

6 September 2025, Daffa Muhammad pernah bekerja bersama Bayu di tim yang sama

Lulu is a very ambitious, talkative spirit who works her way through all her achievements deservedly. During my time with her in one of Telkom's flagship leadership events that span through a month, I worked with Lulu to develop a sustainable business program, during which Lulu became the powerhouse of our brainstorming sessions. Her natural communication skills made her a central voice in our discussions, while her enthusiasm and determination helped shape our sustainable business program into a compelling and well-structured project. I'm glad to have been in a team with her and one day hope to again work and discuss ideas that provide meaningful outcomes for Indonesia.



Rafi Ferdiansyah Raihan · Ke-1

Electrical Engineering | Renewable Energy | Electrical & Telecommunication | Project Management | PCB Design | PV Engineer

17 Juli 2025, Rafi Ferdiansyah dan Bayu mengenyam pendidikan di sekolah yang sama

Semua anggota LinkedIn

Aktif

I confidently say that Lulu is someone you can always rely on to complete tasks and to do them exceptionally well. She has a strong work ethic, a positive attitude, and a proactive mindset in everything she does. Lulu is not only technically skilled, but also communicates clearly, collaborates seamlessly in a team, and takes initiative when needed.

Whether facing challenges or tight deadlines, Lulu consistently demonstrates professionalism, determination, and a solution-oriented approach. She is quick to learn, highly adaptable, and always eager to contribute beyond her responsibilities. Her attention to detail, strong sense of accountability, and ability to stay calm under pressure are just a few qualities that set her apart.

Lulu also brings warmth and positivity to the workplace, making her a joy to work with. Her combination of competence, character, and commitment makes her a valuable asset to any team. I highly recommend Lulu for any opportunity, she will undoubtedly bring value and excellence wherever she goes.



Syafira Puspita Putri · Ke-1

Human Resource Enthusiast II Undergraduate from Management Bisnis Telecommunication and Informatics at Telkom University

18 Juli 2025, Syafira dan Bayu mengenyam pendidikan di sekolah yang sama

Semua anggota LinkedIn

Aktif

I had the pleasure of studying alongside Bayu Nalury, and I can confidently say that she is one of the most driven and inspiring individuals I've encountered. Her dedication and achievements including being a Bank Indonesia Scholarship Awardee and receiving multiple prestigious awards speak volumes about her commitment to excellence.

Bayu consistently demonstrates exceptional communication and leadership skills. Her experience as a Corporate Communication Intern at PLN, along with her public speaking certification, showcases her ability to effectively convey ideas and lead with clarity and confidence. She is also a highly collaborative team player who uplifts those around her and always brings valuable insight to any discussion or project.

I'm confident Bayu will continue to achieve great things in her career, and I wholeheartedly recommend her.



Sylvia Putri Setiawan · Ke-1

Marketing & Administration at Kita Project || MSIB Cycle 7 at PT. Bank Rakyat Indonesia || Undergraduate Student of Management Business Telecommunication and Informatics || One Pipe Education System (OPES) Scholarship

28 Agustus 2025, Sylvia dan Bayu mengenyam pendidikan di sekolah yang sama


Working with Bayu Nalury has been such a positive experience. He's not only professional but also very approachable and supportive, which makes collaboration smooth and enjoyable. His commitment and creativity really add value to every project.

REKOMENDATIONS





← Recommendations +



Received Given Pending

 **Sanggana Praba** · 1st 



Undergraduate Management Business Telecommunication and Informatics
July 19, 2025, Sanggana and Bayu studied together

 All LinkedIn members On 

Saya pernah bekerjasama dengan Bayu Nalury dalam beberapa lomba dan proyek kelompok lainnya, menurut saya Bayu adalah rekan tim yang paling bisa diandalkan dan inspiratif. Saat mengikuti lomba bersama, dia selalu menunjukkan kemampuan berpikir kritis dan pemecahan masalah yang sangat baik, bahkan dalam situasi penuh tekanan. Dia terorganisir dan memiliki kemampuan luar biasa dalam mengatur strategi juga membagi tugas secara efektif agar tim tetap fokus hingga akhir. Tidak hanya dalam kompetisi, dalam beberapa kegiatan non-lomba pun dia selalu menjadi sosok yang inisiatif, supportif, dan membawa energi positif dalam tim. Entah itu saat diskusi ide, mengelola alur kerja, atau sekedar memberi semangat, dia tahu cara membangun kerjasama yang sehat dan produktif. Salah satu keunggulan yang paling menonjol dari dirinya yaitu kemampuannya dalam berkomunikasi. Dia mampu menyampaikan ide dengan jelas, terbuka terhadap masukan, dan mudah diajak berdiskusi. Bagi saya, Bayu adalah pribadi yang penuh integritas, konsisten, serta kolaboratif. Saya merekomendasikan Bayu Nalury untuk kesempatan atau peran apapun di masa depan karena saya percaya dia akan memberikan hasil terbaik dimanapun.

 **Delita Noor Iftitah** · 1st 

Data Analyst & Shared Service Intern at Level Up by Telkom Indonesia | Awardee of Bank Indonesia Scholarship | PKM Funded'23 | ex-Faculty Ambassador | ex-Senior Residents XI | Undergraduate Information System Student
July 18, 2025, Delita Noor worked with Bayu on the same team

 All LinkedIn members On 

I called her Lulu. Lulu is my best academic partner. She is really clever and kind. Such a hardworker woman. I often get some activity and academic project with her, and she definitely good in cooperation.
One thing that I appreciate and proud of her is.. she could get 6 awards just 1 month. But she never be haughty and dismissive in each other. She help and support us. Love her and proud of being her academic partner ✨

 **Agsel Abiyu Ghozi**  · 1st 

OPES Scholarship Awardee 2023 | Practicum Assistant For Mathematic Economics | Senior Resident XIII Telkom University
July 18, 2025, Agsel and Bayu studied together

 All LinkedIn members On 

I highly recommend Kak Bayu as a driven and dependable individual. During our time working together on various campus initiatives, she consistently demonstrated strong leadership, active participation, and a proactive mindset. She is someone who never hesitates to offer help and always brings effective problem-solving ideas to the table. Her ability to communicate clearly and collaborate with diverse individuals makes her a great team player. Kak Bayu's dedication to delivering high-quality results while maintaining a positive attitude is truly admirable. I have no doubt that she will contribute significantly to any organization or project she joins. I wholeheartedly recommend her for any future opportunities.

 **Naomi K** · 1st 

Undergraduate Digital Public Relations Student at Telkom University | Corporate Communications Intern at PLN | Person Behind The 7th Aisle | Ex Social Media Intern
July 17, 2025, Naomi worked with Bayu on the same team

 All LinkedIn members On 

Selama magang bersama di bagian Corporate Communication PLN UID Jawa Barat, saya melihat Bayu Nalury sebagai sosok yang bisa diandalkan, cepat beradaptasi, dan selalu menunjukkan inisiatif dalam bekerja. Dia juga ramah dan mudah bergaul dengan tim, sehingga suasana kerja jadi lebih menyenangkan. Salah satu keunggulan yang paling menonjol adalah kemampuannya dalam mengelola data menggunakan Excel dan Google Spreadsheet dengan rapi dan efisien. Selain itu, dia juga konsisten menjaga nilai-nilai positif dalam kesehariannya. Would highly recommend her for any opportunity in the future! 🙌🏻

 **Rofi'ah Budi Nadia** · 1st 

Undergraduate Informatics Student at Telkom University
July 18, 2025, Rofi'ah and Bayu studied together

 All LinkedIn members On 

I've had the opportunity to work with Lulu on several projects, and every collaboration has been a great experience. Lulu is a highly professional and critical thinker who always brings valuable insights to the table. She approaches challenges with clarity and composure, making her a dependable and effective team member. Working with her is not only productive but also enjoyable. I truly admire her work ethic and would highly recommend her to any team.

LETS WORK TOGETHER

Let's embark on a journey together

Feel free to reach out!



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TOGETHER!

