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NUZULA



DATA SCIENCE UNDERGRADUATE | CREATIVE DIRECTOR & VIDEO EDITOR  
| WEB DEVELOPMENT

VIDEO EDITOR

DATA SCIENCE

WEB DEV

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FIR

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# ABOUT ME



## I'M AL-FIRDAUS NUZULA

DATA SCIENCE UNDERGRADUATE | CREATIVE DIRECTOR & VIDEO EDITOR

I am a Data Science student at Surabaya State University with over 3 years of professional experience in the creative industry.

My skills extend beyond processing data and building machine learning models to visualizing and communicating them in an easy-to-understand narrative (data storytelling).

### Skills :





**DESIGN CREATIVE**

VIDEO EDITOR  
SPECIALIST

ABDULLAH

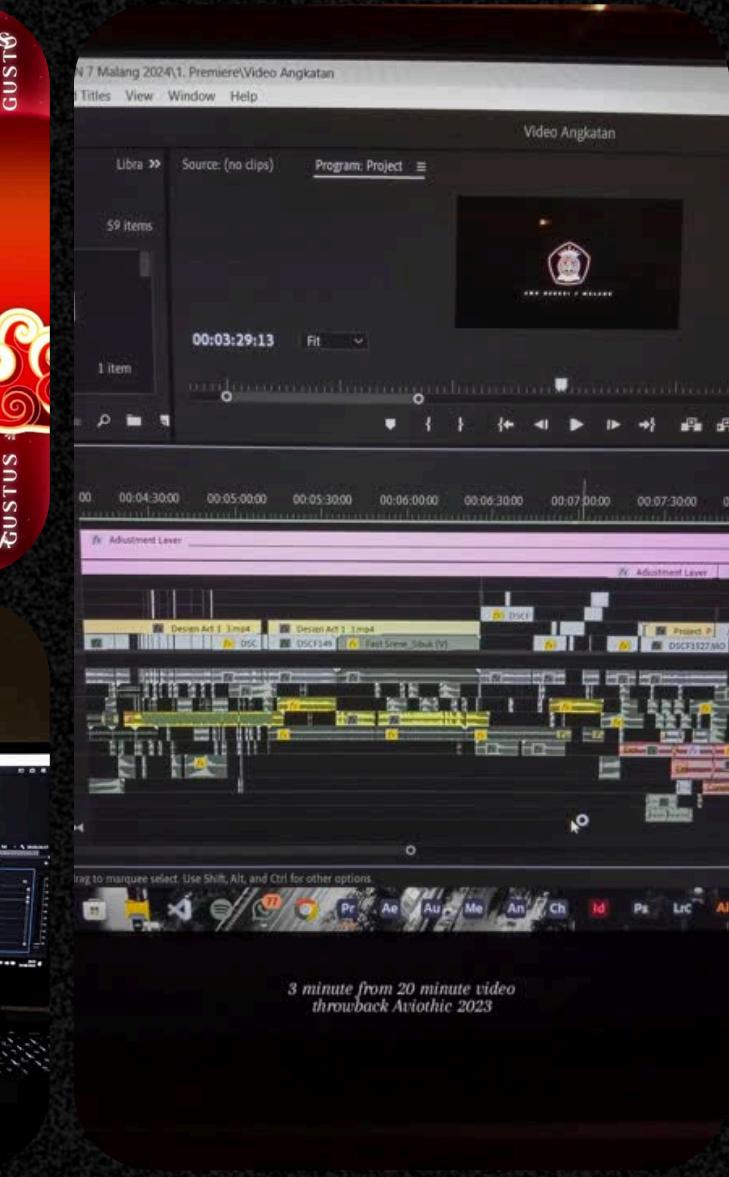
AL-FIRDAUS NUZULA

DESIGN CREATIVE



# VIDEO EDITING

TURNING MOMENTS INTO MASTERPIECES. EVERY FRAME TELLS A STORY.



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VIDEO SPECIALIST



# MOTION GRAPHIC

VISUALS THAT MOVE YOU. CREATE. DISRUPT. INSPIRE.

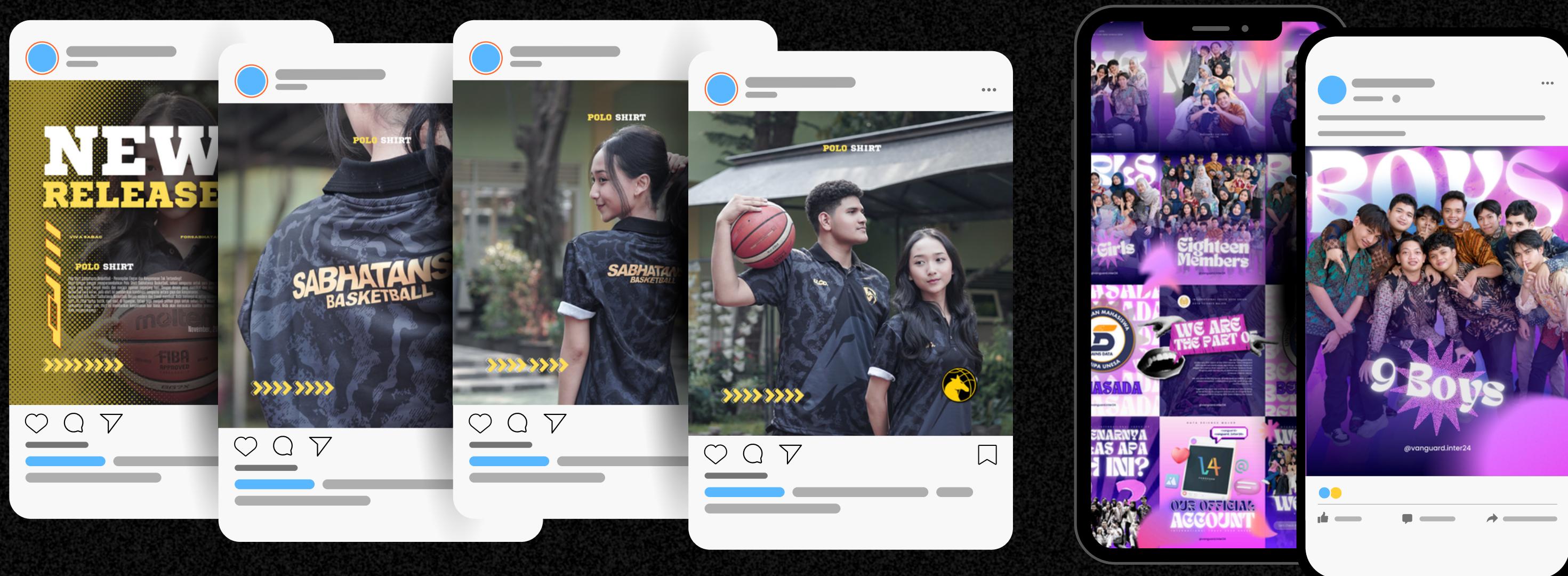


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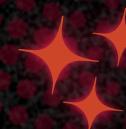
# DESIGN GRAPHIC

FOR MANAGE SOCIAL MEDIA ACCOUNT : YOUTUBE, INSTAGRAM AND OTHERS



SOURCE BY [VANGUARDIANS24](#)

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# PHOTOGRAPHY

CRAFTING VISUAL EXPERIENCES ACROSS EVERY MEDIUM.



firdausanzl  
SMAN 7

View profile

View more on Instagram

182 likes

firdausanzl and r.hardi\_  
547 followers

View profile

View more on Instagram

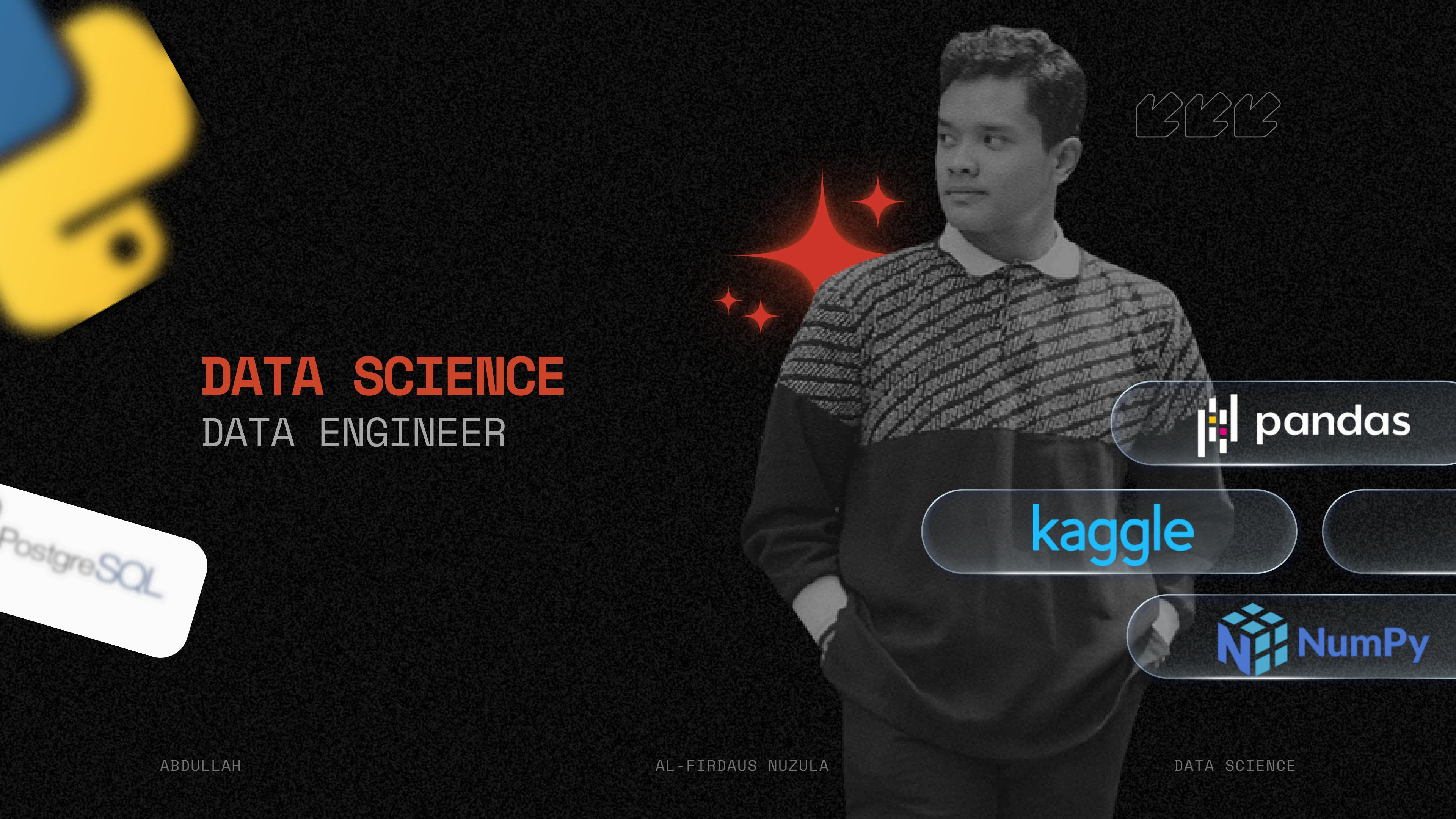
304 likes

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VIDEO SPECIALIST



# DATA SCIENCE

## DATA ENGINEER

PostgreSQL

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DATA SCIENCE

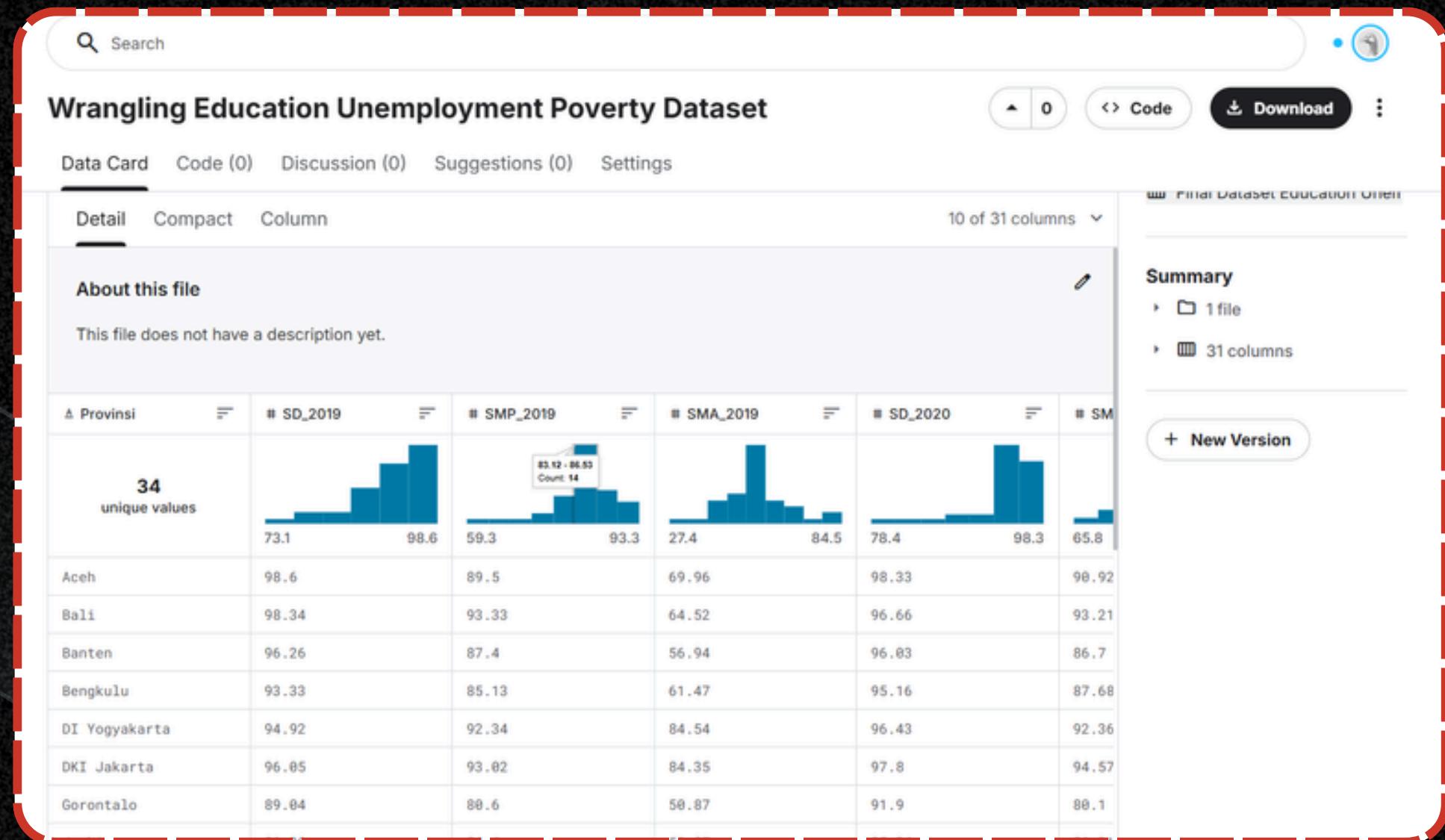


kaggle

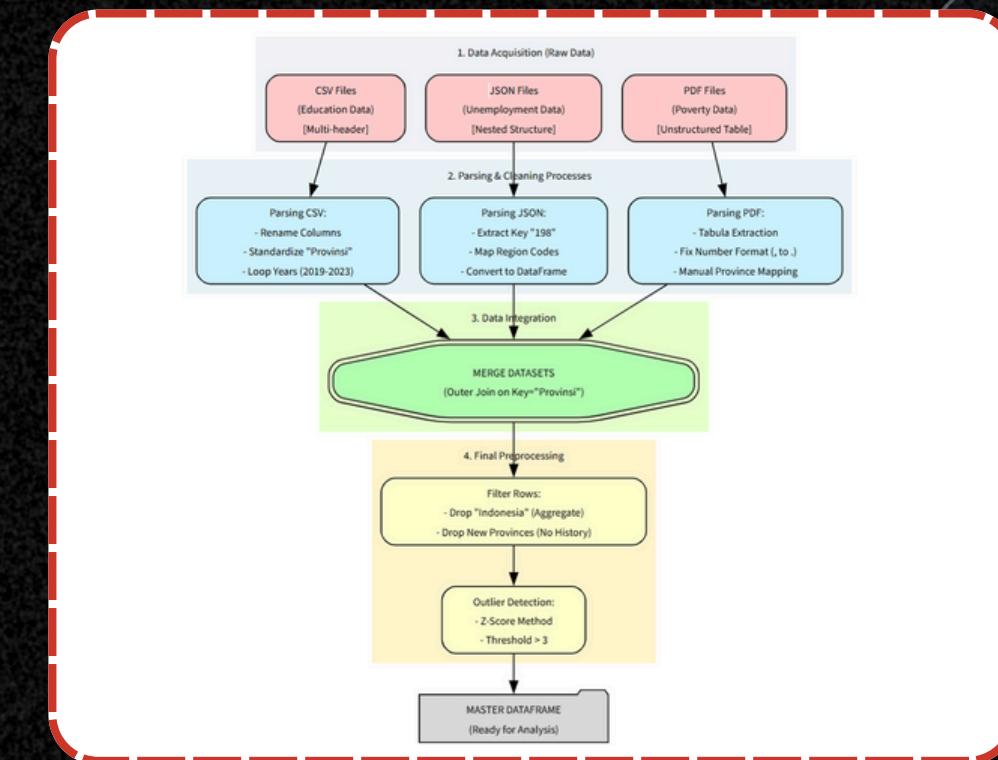




# EXPLORATORY DATA ANALYSIS



WRANGLING EDUCATION UNEMPLOYMENT POVERTY DATASET



Education, poverty, and unemployment are closely connected and significantly affect society's performance. Quality education equips individuals with skills for employment, while inadequate education limits job opportunities, increasing unemployment and poverty. This project analyzes data from the Central Statistics Agency (BPS) to understand these relationships and provide insights for better social and economic development strategies in Indonesia.



# PREDICTIVE MODELING



ARTIFICIAL INTELLIGENCE

## INTEGRATED AI APPROACH FOR TELCOMMUNICATION CUSTOMER CHURN ANALYSIS: A COMPARISON OF SUPERVISED CLASSIFICATION AND UNSUPERVISED CLUSTERING

### CLASSIFICATION EVALUATION (SUPERVISED)

*Will display the confusion matrix for each model (DT, NB, ANN)*



AI APPROACH FOR TELECOMMUNICATION  
CUSTOMER CHURN ANALYSIS

- Customer churn is a critical challenge in the highly competitive telecom industry.
- Machine Learning offers powerful tools for predictive analytics to identify at-risk customers.
- This project implements and compares supervised classification models to predict churn and derive actionable business insights.

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PREDICTIVE MODEL

# DATA VISUALIZATION

## GOOGLE VISUALIZATION DATA



# Key Insights from Model Comparison

## Key Insight 2

Decision Tree has the lowest recall (0.68) among the three.

- It misses more churners, which is risky for the business.
- But it has the highest precision for the non-churn class (0.88) and overall accuracy of 80%.

### Model Performance Summary

	DECISION TREE	NAIVE BAYES	ANN
Accuracy	80%	79%	80%
Recall	0.68	0.82	0.79

GROUP 5

# CORRELATION HEATMAP

The heatmap illustrates the correlation matrix for a set of socio-economic variables over a period from 2009 to 2023. The variables are listed on both the x-axis and y-axis. The color intensity indicates the strength and sign of the correlation coefficient. Darker shades of red represent negative correlations, while darker shades of blue represent positive correlations. The diagonal line shows a strong positive correlation (blue) for each variable with itself. Off-diagonal elements show varying degrees of correlation between different variables, such as SD, SMP, and SMA showing high positive correlations, and Tidak\_Sekolah showing a negative correlation with education levels.

Chapter 3

# Result of Public Opinion Using K-Means

## WordCloud

Word Cloud - Cluster 1

cukai naik pajak turun bea bayar kena jalan kaya naikin jangan perasaan telahna

Word Cloud - Cluster 2

anggota republik korupsitakut partai dpt gaji sepihas uuu jangan mau kan bicara dukung bubar harus harus

Word Cloud - Cluster 3

jangan ekonomi bicara keren korupsi kerja tataku kerja baru apur luhur lihat anak ibu dukung

Word Cloud - Cluster 4

doa lindung baik amanah alhamdulillah jalan ber jagat svt bawaan berlalu tugas allokerja berlalu jangan

Word Cloud - Cluster 3

jamin sertifikat kota juta bunga kur bri benar bank pakai pinjam dana anggdon

Word Cloud - Cluster 3

lakukur sertifikat kota juta bunga kur bri benar bank pakai pinjam dana anggdon

Chapter 3

# Result of Forecasting using Prophet

## Historical Trend Overview (July - Nov 2025)

Sentiment tended to **stay in a Neutral Zone** initially. A progressive decline in sentiment score was observed **starting after October 2025**.

- Blue Line: Predicted Value ( $yhat$ ).
- Light Blue Area: Confidence Interval (Margin of error).

Processing Text



# WEB DEVELOPMENT

## ANDROID & DESKTOP



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# DESKTOP & ANDROID

## WEB PORTFOLIO



Al-Firdaus | Data Scientist & Video Editor  
Portfolio of Al-Firdaus Nuzula. Bridging data insights with creative storytelling through Data Science and Professional Video Editing.  
[alfirdaus.dev](http://alfirdaus.dev)

Al-Firdaus

Home About Work Contact Resume

Hi I'm Al-Firdaus  
A Data Scientist  
and Creative Designer for  
**Predictive Models**  
Where Analytical Logic meets Creative Design.

PORTFOLIO WEB : [alfirdaus.web](http://alfirdaus.web)

**FIR**,

FIR PRODUCTION

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