

Muammar Nurdin

Home

# PORTFOLIO

## Data Analyst

BY

Muammar Nurdin



2025



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# About Me

An aspiring data analysis professional dedicated to bridging theoretical knowledge with real-world experience. My goal is to assist stakeholders in making accurate and informed business decisions through insights derived from data analysis. By leveraging data analysis, I aim to identify challenges faced by stakeholders, enabling them to develop forward-looking insights to find solutions and achieve optimal profitability.

I am actively expanding my knowledge and understanding of data processing and presenting it through clear and accessible visualizations. Additionally, my involvement in various organizational activities has strengthened my teamwork and communication skills.

With strong critical thinking abilities and a commitment to continuous learning, I am passionate about building a career in data science, business analytics, and spatial statistics, particularly in the technology sector. I believe data is the key to driving innovation and efficiency.



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Contact

**[muammarnurdin28@gmail.com](mailto:muammarnurdin28@gmail.com)**  
[linkedin.muammarnurdin](#)



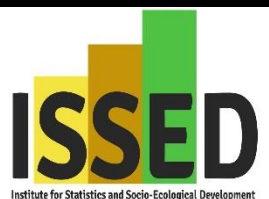
# EXPERIENCE

**HOME  
CREDIT**  
*Kamu Bisa!*

## Data Scientist Project Based Virtual Intern

At Home Credit Indonesia x Rakamin Academy

**Jan 2025 - Present**



## Junior Field Researcher

At Institute for Statistics and Socio-Ecological Development

**Juni 2024 - Des 2024**



## Junior Field Researcher

At | International Centre for Aceh and Indian Ocean Studies

**Juni 2024 - Des 2024**



## Internship

At Aceh Province Office of Women's Empowerment and Child Protection

**Juni 2022 - Juli 2022**



## Laboratory Assistant

At FMIPA Syiah Kuala University

**Juni 2024 - Des 2024**



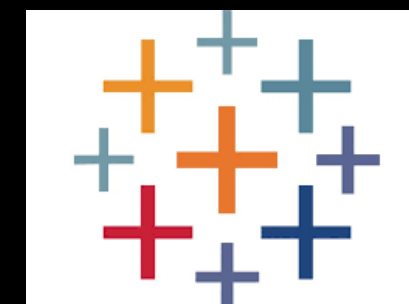
# EDUCATION

## Universitas Syiah Kuala

Statistics Student

**2020 - 2024**

# TOOLS





# 01 PROJECT

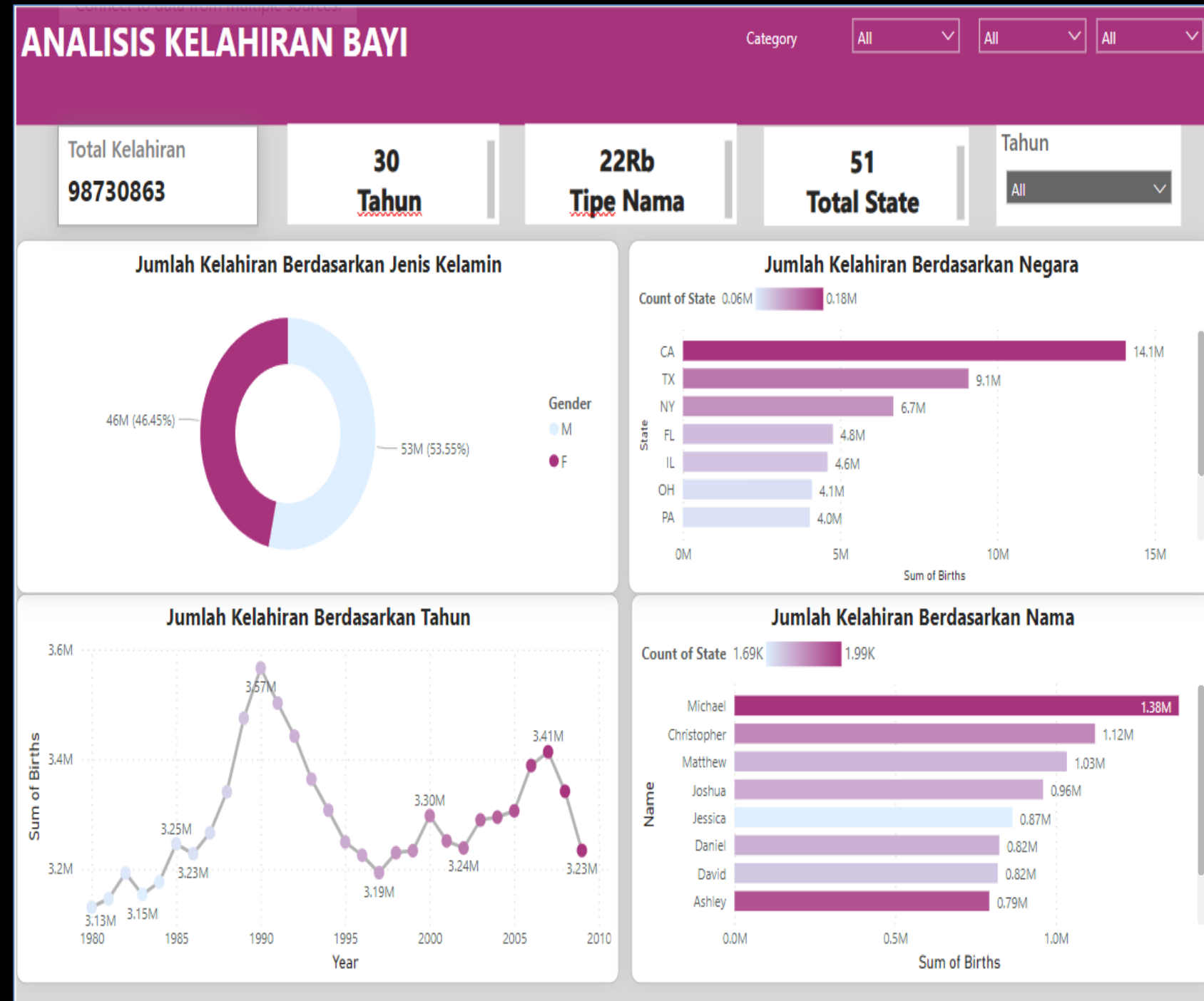
# Project – Data Analitik Courses

Tableau Dashboard x Kaggle Datsets



# Dashboard Data Analitik Courses

## Insights



Male infant births totaled 53 million, accounting for 53% of total infant births, while female infant births totaled 46 million, representing 46% of total births. The Pacific states recorded the highest number of total births at 14.1 million, followed by the Southern states with 9.1 million births.

The most popular baby name was Michael, with 1.38 million babies given the name, followed by Christopher with 1.12 million. The highest number of infant births occurred in 1990, with a total of 3.57 million births, while the lowest was recorded in 1980, with 3.13 million births.



## 02 PROJECT

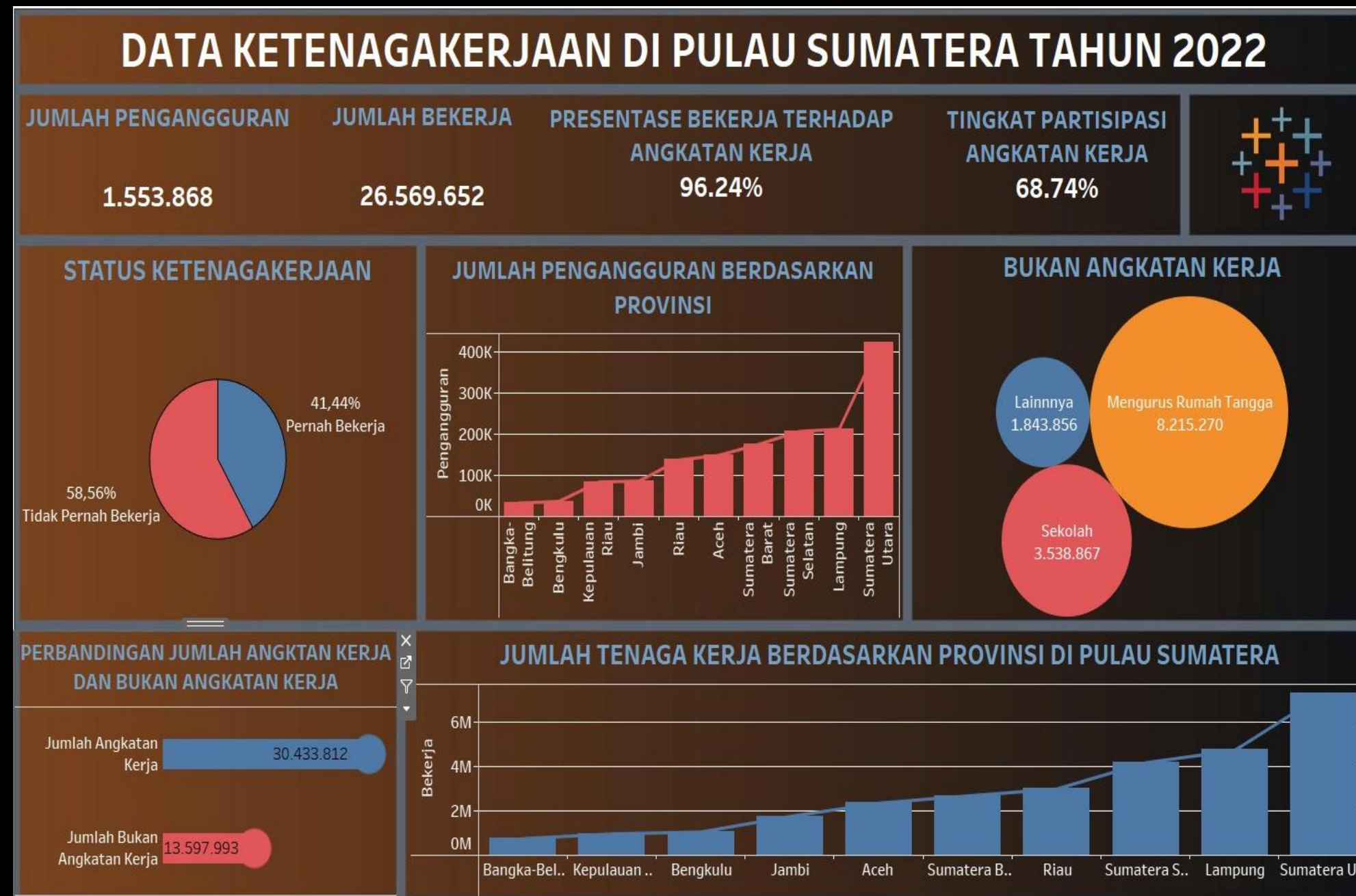
# Employment Data Analysis

Tableau Dashboard x Badan Pusat Statistik



# Badan Pusat Statistika to Tableau Dashboard

## Insights



The number of unemployed individuals on Sumatra Island was recorded at 1,553,868, while the number of employed individuals reached 26,569,625. In general, provinces with a higher workforce tend to also experience a higher unemployment rate. For instance, North Sumatra has a large workforce but also a significant level of unemployment. In contrast, provinces such as Bangka Belitung and Bengkulu, despite having smaller workforces, exhibit lower unemployment rates.



# 03 PROJECT

## Final project on Analysis of Stunting Data Using Geographically Weighted Panel Regression

RStudio x QGIS x BkkbN Portal





# BkkbN Portal to Rstudio and QGIS

```
#thitung
> tx1.1 = hasil.gwpr$SDF$X1/hasil.gwpr$SDF$X1_SE
> tx1.1
[1] 1.4410997 0.9248516 2.7215509 2.5768615 1.4394655 1.6707609 1.7717172 1.3117359 1.7316653 1.4988214 1.7537137
[12] 2.8045846 1.4634067 2.2655091 1.3862916 1.6999753 2.0206780 0.4388580 2.6613658 2.5075805 2.8256448 0.9219290
[23] 1.7515334 1.4410997 0.9248516 2.7215509 2.5768615 1.4394655 1.6707609 1.7717172 1.3117359 1.7316653 1.4988214
[34] 1.7537137 2.8045846 1.4634067 2.2655091 1.3862916 1.6999753 2.0206780 0.4388580 2.6613658 2.5075805 2.8256448
[45] 0.9219290 1.7515334
> tx1.2 = hasil.gwpr$SDF$X2/hasil.gwpr$SDF$X2_SE
> tx1.2
[1] 4.152230 3.525358 3.941090 4.035432 3.196237 2.845659 2.786886 3.767206 2.965967 2.773576 3.475184 3.857593
[13] 3.775163 3.957928 3.238415 2.767373 3.741580 3.973312 3.976638 4.047556 3.831737 2.991626 2.843837 3.775163
[25] 3.525358 3.941090 4.035432 3.196237 2.845659 2.786886 3.767206 2.965967 2.773576 3.475184 3.857593 3.775163
[37] 3.957928 3.238415 2.767373 3.741580 3.973312 3.976638 4.047556 3.831737 2.991626 2.843837
> tx1.4 = hasil.gwpr$SDF$X4/hasil.gwpr$SDF$X4_SE
> tx1.4
[1] 6.905781 5.561164 6.036944 6.112799 5.021038 4.509622 4.861869 6.560188 4.849807 5.147797 6.230196 5.881581
[13] 6.591286 6.575541 5.273170 4.886844 6.517826 6.685530 6.177267 6.381695 5.869581 4.214687 4.577960 6.905781
[25] 5.561164 6.036944 6.112799 5.021038 4.509622 4.861869 6.560188 4.849807 5.147797 6.230196 5.881581 6.591286
[37] 6.575541 5.273170 4.886844 6.517826 6.685530 6.177267 6.381695 5.869581 4.214687 4.577960
> tx1.6 = hasil.gwpr$SDF$X6/hasil.gwpr$SDF$X6_SE
> tx1.6
[1] -3.938060 -3.857111 -2.658525 -2.803923 -3.351569 -2.959942 -2.809848 -3.762260 -3.007801 -2.845488 -3.219706
[12] -2.486018 -3.673955 -3.216435 -3.356189 -2.814440 -3.243983 -4.437193 -2.789144 -3.021814 -2.457046 -3.044152
[23] -2.921985 -3.938060 -3.857111 -2.658525 -2.803923 -3.351569 -2.959942 -2.809848 -3.762260 -3.007801 -2.845488
[34] -3.219706 -2.486018 -3.673955 -3.216435 -3.356189 -2.814440 -3.243983 -4.437193 -2.789144 -3.021814 -2.457046
[45] -3.044152 -2.921985
> tx1.7 = hasil.gwpr$SDF$X7/hasil.gwpr$SDF$X7_SE
> tx1.7
[1] 2.031478 2.474274 1.542689 1.576864 2.085829 1.564477 2.141795 2.281746 2.010012 2.200811 2.234837 1.442966
[13] 2.245398 1.970656 2.364623 2.172678 2.124637 2.342608 1.643126 1.770582 1.440500 1.635918 1.671003 2.031478
[25] 2.474274 1.542689 1.576864 2.085829 1.564477 2.141795 2.281746 2.010012 2.200811 2.234837 1.442966 2.245398
[37] 1.970656 2.364623 2.172678 2.124637 2.342608 1.643126 1.770582 1.440500 1.635918 1.671003
```

```
*****
*           Results of Geographically Weighted Regression           *
*****

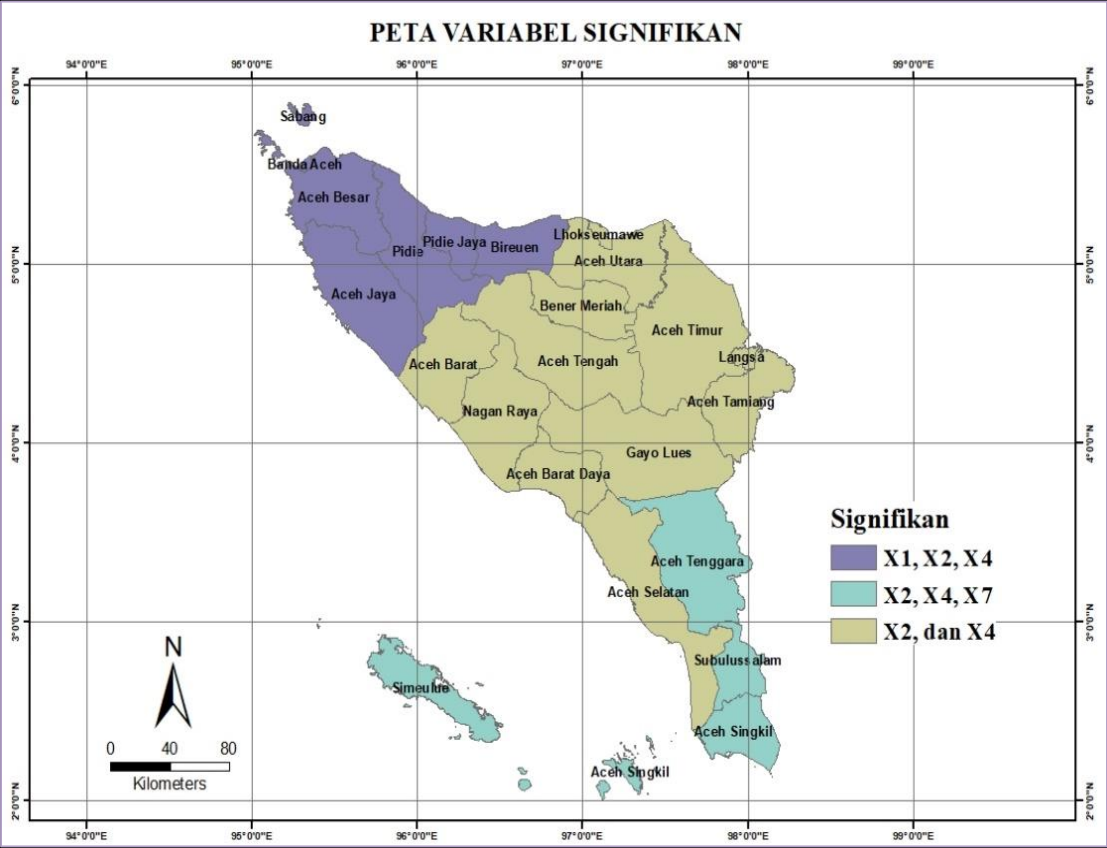
*****Model calibration information*****
Kernel function: bisquare
Adaptive bandwidth: 44 (number of nearest neighbours)
Regression points: the same locations as observations are used.
Distance metric: Euclidean distance metric is used.

*****Summary of GWR coefficient estimates:*****
               Min.      1st Qu.      Median      3rd Qu.      Max.
Intercept -1235.33492 -1051.59121 -1031.38559  -470.11362  317.0969
X1          0.20554   0.59973   0.78471   0.91265   1.0075
X2          0.67559   0.73920   0.76775   0.79620   0.9852
X4          1.04131   1.09855   1.14529   1.20201   1.4397
X6          -0.69778  -0.50372  -0.43661  -0.39498  -0.3312
X7          0.10831   0.12302   0.14719   0.16162   0.1866
*****Diagnostic information*****
Number of data points: 46
Effective number of parameters (2trace(S) - trace(S'S)): 12.20782
Effective degrees of freedom (n-2trace(S) + trace(S'S)): 33.79218
AICc (GWR book, Fotheringham, et al. 2002, p. 61, eq 2.33): 896.7586
AIC (GWR book, Fotheringham, et al. 2002,GWR p. 96, eq. 4.22): 876.9281
BIC (GWR book, Fotheringham, et al. 2002,GWR p. 61, eq. 2.34): 859.2866
Residual sum of squares: 411975245
R-square value: 0.8834607
Adjusted R-square value: 0.8400757

*****
Program stops at: 2024-08-15 10:45:12.265817
```

## Insights

The dominant variables affecting the number of families at risk of stunting vary across districts/cities in Aceh Province, based on analysis using the GWPR method. The variables of the number of families without proper latrines and the number of families with wives aged 35-40 years have an impact across all regions of Aceh Province, whereas the variable of the number of families with more than two children has no effect in any region of Aceh Province.



# 04 PROJECT

## Infographic of Village Population Data

Excel x QGIS x Canva





# Excel and QGIS to Canva

## Insights

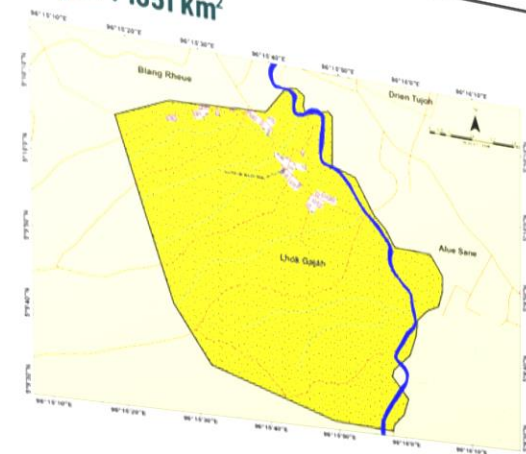
Lhok Gajah Village has a population primarily of working age, with the highest level of education averaging junior high school or its equivalent. The agricultural sector is the main source of livelihood for the village community.

KKN REGULER DAN KOLABORASI XXIII  
PERIODE 2023 KELOMPOK 279

## INFOGRAFIS DATA KEPENDUDUKAN DESA LHOK GAJAH

DESA LHOK GAJAH, KECAMATAN ULIM, KABUPATEN PIDIE JAYA

Luas Wilayah : 1051 km<sup>2</sup>



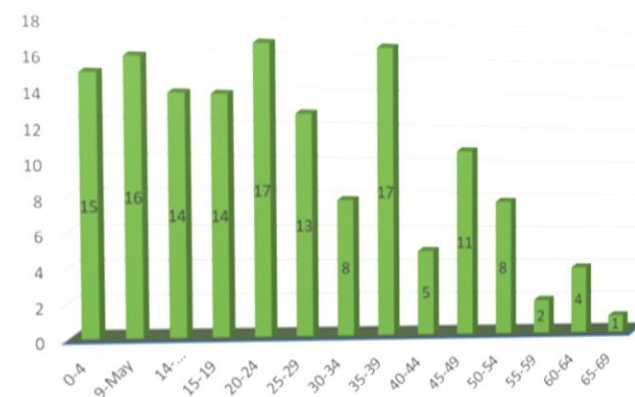
### Batasan Wilayah

Gampong Lhok Gajah memiliki 2 Dusun, yaitu :

- Dusun Harapan Jaya
- Dusun Bina Baru

Utara : Krueng Ulim  
Selatan : Bukit Barisan  
Barat : Gampong Blang Reh  
Timur : Kreung Ulim

### JUMLAH PENDUDUK MENURUT USIA



Mayoritas penduduk Gampong Lhok Gajah berada diusia 20-24 tahun dan 35-39 tahun

### PENDUDUK

Gampong Lhok Gajah memiliki :

2 Dusun

37 KK

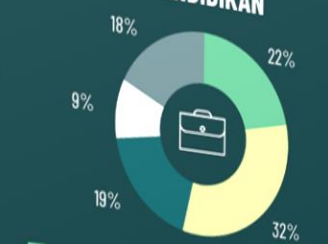
146 Jiwa

Dengan rincian penduduk berjenis kelamin :

Laki-Laki 68 Jiwa  
46,5%

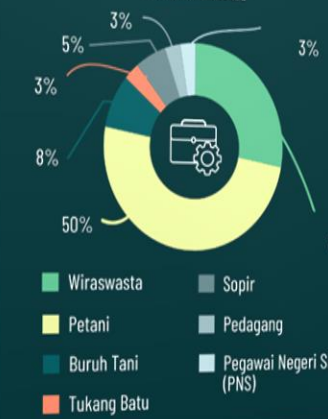
Perempuan 78 Jiwa  
53,5%

### PENDIDIKAN



Mayoritas penduduk Gampong Lhok Gajah sedang/tamat Pendidikan tertinggi tingkat SMP/Sederajat dengan persentase 32%

### PEKERJAAN

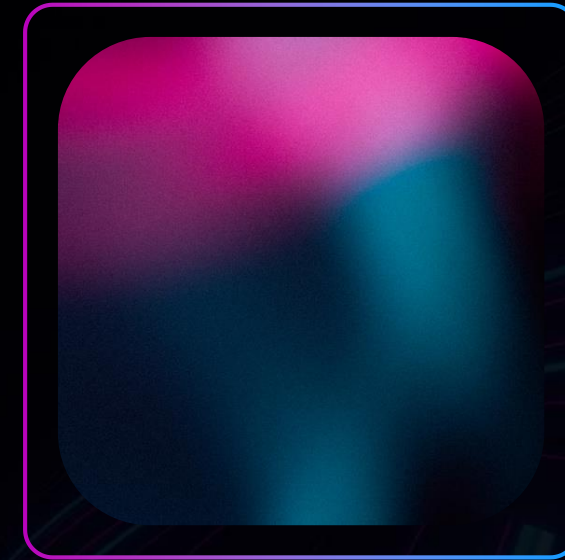


Mayoritas penduduk Gampong Lhok Gajah profesinya adalah sebagai Petani/Pekebun dengan tingkat persentase sebesar 50%

Muammar Nurdin

# Thank You

FOR THE OPPORTUNITY



2025