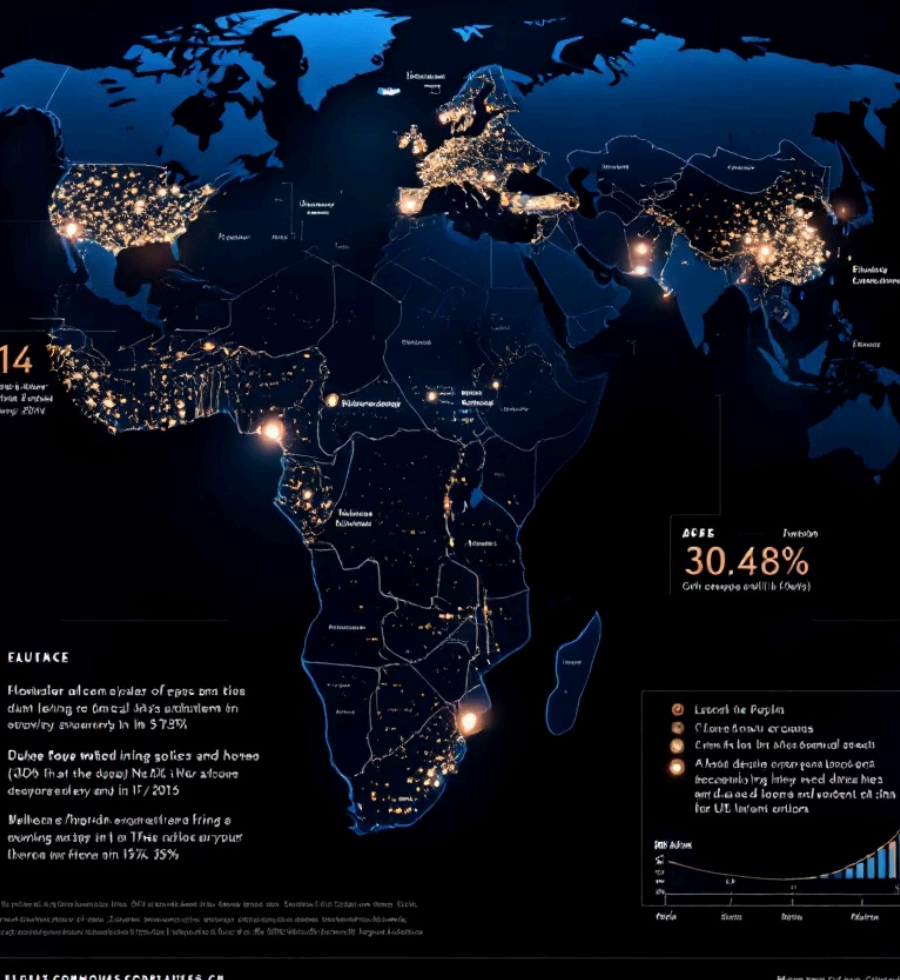


# HIGH YOUTH

High youth unemployment with youth unemployment rates for the emerging economies and developing Nations!



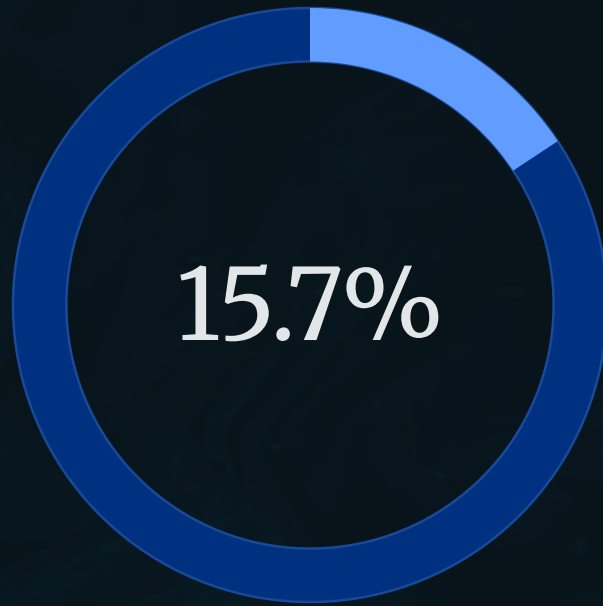
## The Global Youth Unemployment Crisis

Youth unemployment is a pressing global challenge. It significantly impacts economic stability and social development. This crisis requires urgent, innovative solutions.

**P** by Pedro Neel da Silva

# Understanding Youth Unemployment

Globally, 15.7% of young people are unemployed. This represents 260 million youth not in employment or training, according to the ILO's 2025 projections.



Global Youth Unemployment

Current rate impacting millions.



Youth Affected

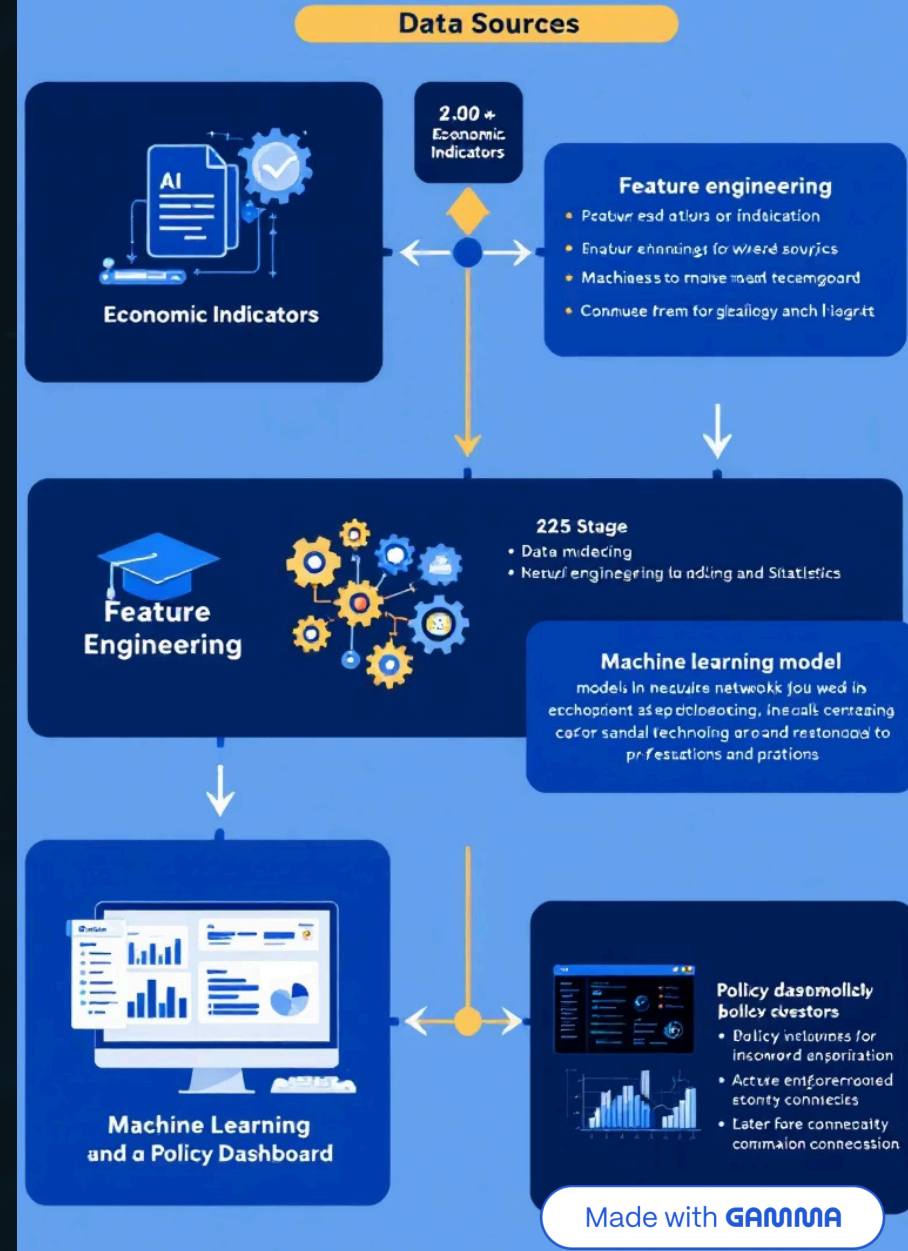
Not in employment or training.

Addressing this crisis is crucial for achieving SDG #8: Decent Work and Economic Growth.

# Our Predictive Approach to Solutions

We've developed a robust predictive model to forecast youth unemployment. This model leverages diverse data sources to inform policy decisions effectively.

Our architecture seamlessly integrates data for actionable insights.



# Live Prediction in Action: Nigeria

Our model provides accurate, real-time predictions. For Nigeria, with specific economic inputs, we forecast youth unemployment with high precision.

## Input Parameters

- GDP Growth: 3.2%
- Education Spend: 1.8%
- Inflation: 18.5%

## Predicted vs. Actual

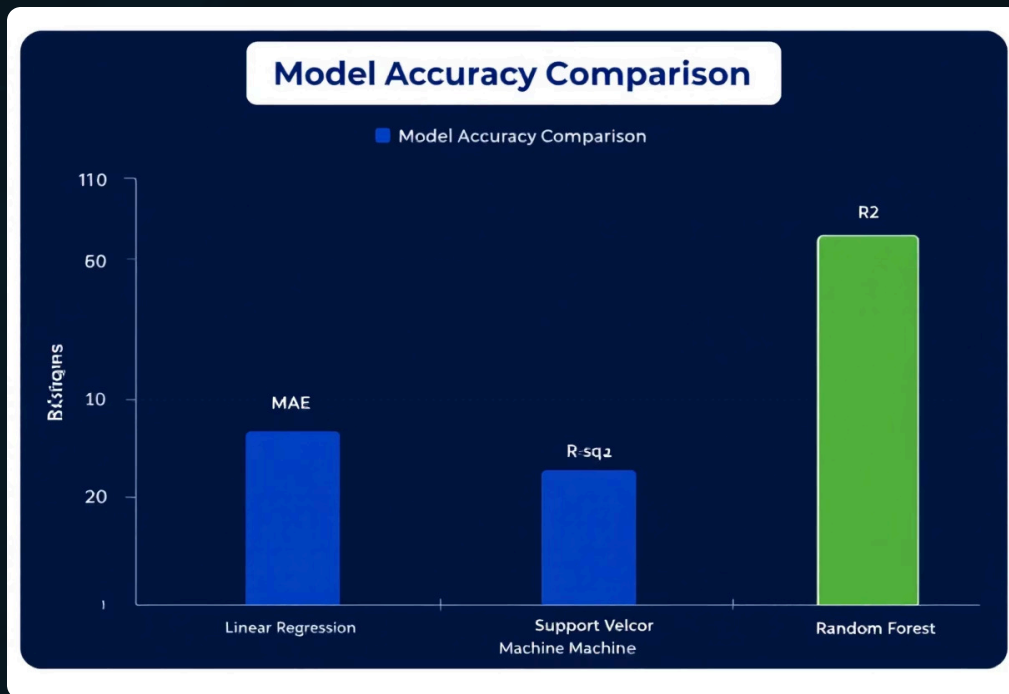
- Predicted Unemployment: 19.7%
- Actual Unemployment: 20.1%

This demonstrates our model's capability to assist policymakers in strategic planning.

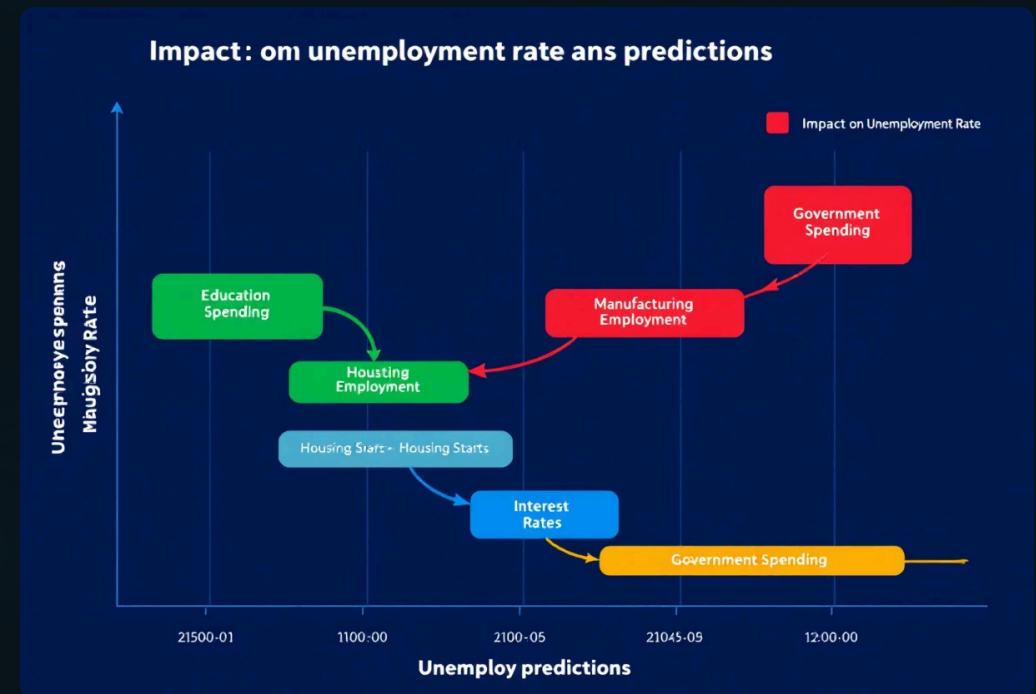


# Model Performance and Key Insights

Our predictive model boasts strong performance metrics. We've rigorously compared algorithms to ensure optimal accuracy and reliability.



Algorithm comparison highlights our model's superior predictive power.



Feature analysis reveals that education spending has a profound impact, three times more than Foreign Direct Investment alone.

# Ensuring Fairness: Bias Mitigation

We are committed to building fair and equitable models. Our bias mitigation techniques significantly improve accuracy across diverse demographics and regions.

Low-Income Countries MAE	2.1	1.4
Gender Parity Correlation	-0.32	-0.07

Consistent performance across regions is a cornerstone of our fairness approach.



# Simulating Policy Impact

Our interactive simulation tools empower policymakers to explore the potential outcomes of interventions. Adjusting education spending, for example, reveals a direct impact on unemployment rates.

A 5% increase in education spending could lead to a 2.1% reduction in youth unemployment, as seen in the Ghana policy experiment in 2024.

# A Sustainable Pathway Forward

Our approach creates a virtuous cycle from prediction to intervention, directly impacting SDG targets.



This model offers a 23% faster unemployment reduction and saves \$5 for every \$1 invested in predictive targeting. We aim for global deployment to realize these outcomes widely.