

Outage risk prediction



Connect

Get Started



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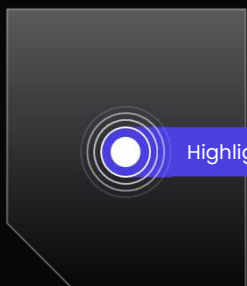
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Introduction

Today, thousands of Congolese citizens are deprived of critical benefits such as access to information, digital health services, and educational opportunities simply because communication networks do not meet their needs. This situation perpetuates inequality and impedes sustainable progress in a nation striving for development.

4,5 MBPs
Congo

-20%

De acordo com a International Telecommunication Union (ITU), menos de 20% das áreas rurais na República do Congo têm acesso à infraestrutura necessária para oferecer serviços de internet de qualidade.

Média global

100 ↗
MBPs





The Republic of Congo faces a serious connectivity challenge that impedes sustainable socio-economic development and perpetuates inequality. With an internet penetration rate of only around 16% and mobile internet coverage of approximately 45%, a large proportion of the population has limited access to essential digital information and services.



Problem Statement

Medical fixed internet speeds at just 4.5 Mbps, well below the global average



A World Bank study states that a 10% increase in internet penetration could generate 1.38% growth in GDP. Therefore, improving connectivity in the Republic of Congo could have a substantial economic impact.



In urban areas, internet penetration can reach 40%, while in rural areas it is fundamentally below 5%.
(Source: UN Sustainable Development Report)





Solution Overview

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1. Real-Time Performance Analysis:

The platform will collect real-time data on network performance, including metrics such as download speed, upload speed and latency. This will allow operators to quickly identify problem areas and make informed decisions about improvements.

2. Detailed Network Condition Reports:

Through automatic reporting, our solution will provide a clear analysis of the network's health. These reports will include insights into the relationship between identified conditions and performance, helping operators prioritize interventions in more critical regions.

Platform

Innovative real-time analytics and network optimization platform that aims to transform the country's telecommunications infrastructure. Our solution is composed of three main components:

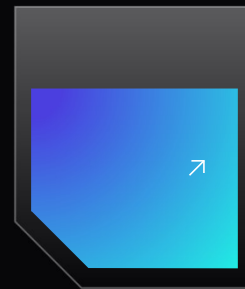
3. Simulation and Strategic Planning:

The platform will enable simulations that allow operators to model different infrastructure investment scenarios. This will ensure that resources are allocated more effectively.



Benefits

Provide quality internet access in rural and remote areas, reducing the digital divide and ensuring that more citizens have access to essential services such as health and education



01

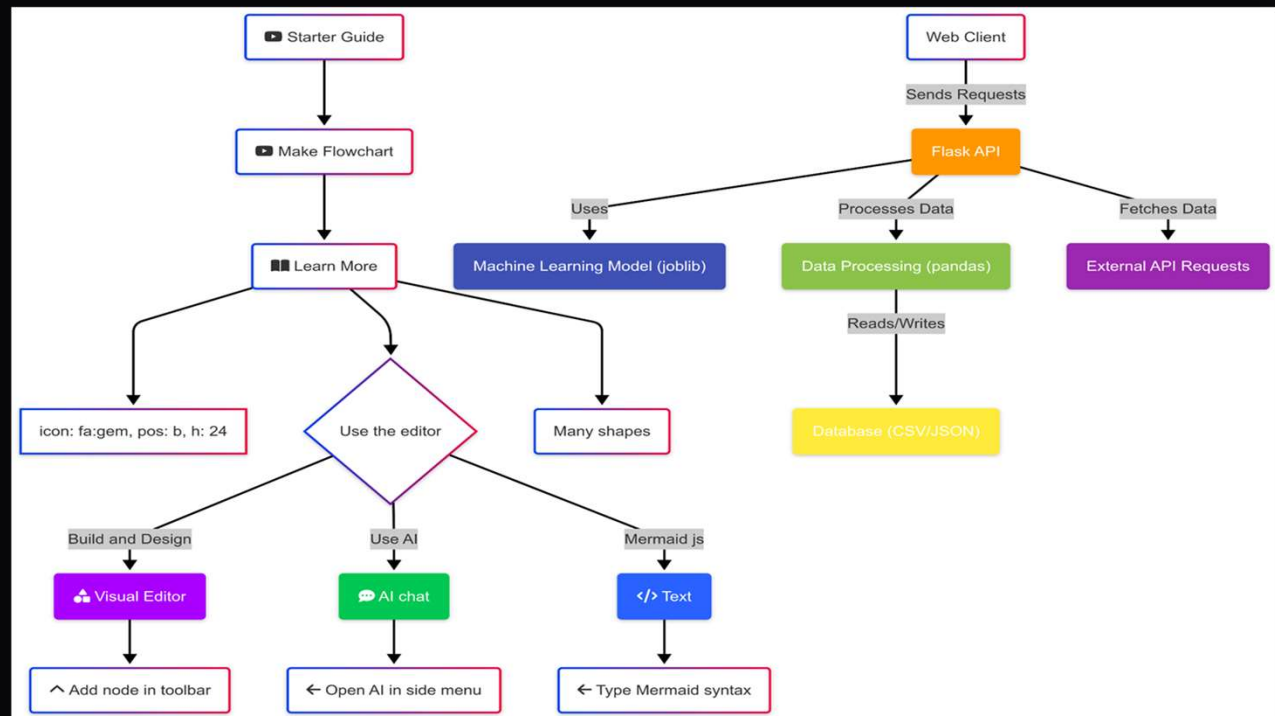
Informed Decision
Making



02

Resource
Optimization

Platform architecture



Outage Risk Prediction

Country Code (ISO 3166-1 alpha-2):

Start Time:



End Time:



Predict Risk

Error: Unexpected token '<', "

Risk Level Interpretation

Risk Level	Probability Range	Action Required
Low	< 40%	Regular monitoring
Medium	40-70%	Increased monitoring
High	> 70%	Immediate action required

how it works

The
platform

LOW
MEDIUM
HIGH

Probability range of
the event happening

The platform

Country

Filter

Outage Risk Prediction

Country Code (ISO 3166-1 alpha-2):

CG

Start Time:

27-12-2024 16:00

End Time:

27-12-2024 05:26

December, 2024

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

Clear

Today

03

04

05

06

07

08

09

26

27

28

29

30

31

32

High. Take necessary precautions.

Action Required

Low < 40%

Medium 40-70%

High > 70%

Regular monitoring

Increased monitoring

Immediate action required

Date
Filter

 LOW

 MEDIUM

 HIGH



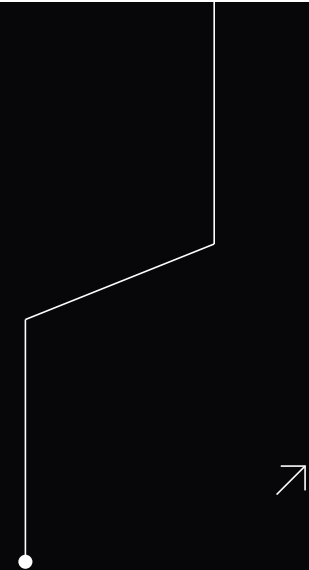
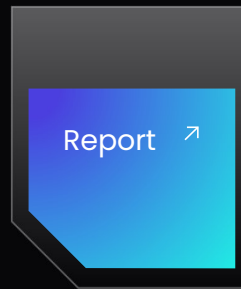
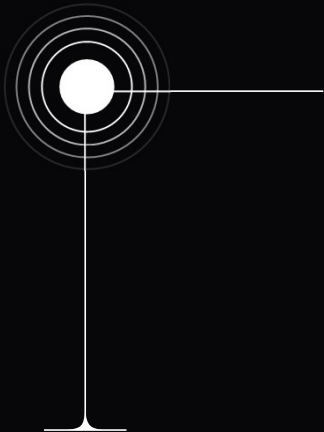
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Open Source Generative AI Generated Report
Generation

Future implementations

Thank You

