

JUSTICE TECH NG HACKATHON PITCH DECK

BY

- ISRAEL OLATUNJI TIJANI, CertPM, SEMP, fWASIG
- VALERIA EMEREMGINI
- UCHENNA ANYAEGBUNA, Esq



Overview: Why we are the perfect choice



This is to certify that

Israel Olatunji Tijani

has successfully completed
the Centre for Human Rights and Google online course
The right to privacy in the digital age in Africa
presented from 24 May 2021 to 5 July 2021

A handwritten signature in black ink, likely belonging to Prof. Frans Viljoen.

Prof. Frans Viljoen
Director
Centre for Human Rights
Faculty of Law
University of Pretoria

A handwritten signature in black ink, likely belonging to Titi Akinsanmi.

Titi Akinsanmi
Lead
Government Affairs & Public Policy
West & Francophone Africa
Google

- Module 1: Introduction to privacy and data protection
- Module 2: Overview of the legal framework on privacy
- Module 3: Legitimate restrictions on the right to privacy
- Module 4: Emerging issues – privacy in the digital age

Problem Statement

In Nigeria, the digital divide casts a long shadow over justice. For the 45.72% rural population, accounting for millions in underserved communities, poor internet penetration means essential legal information and aid remain out of reach. This digital barrier, coupled with pervasive linguistic hurdles, deepens the justice gap, leaving vulnerable populations without recourse or understanding of their rights, even when facing everyday legal challenges. They are disempowered, unable to navigate a complex legal landscape that rarely speaks their language or exists on their accessible tech.

These challenges are exacerbated by:

- Limited internet access
- Language barrier
- Digital literacy
- Financial constraints





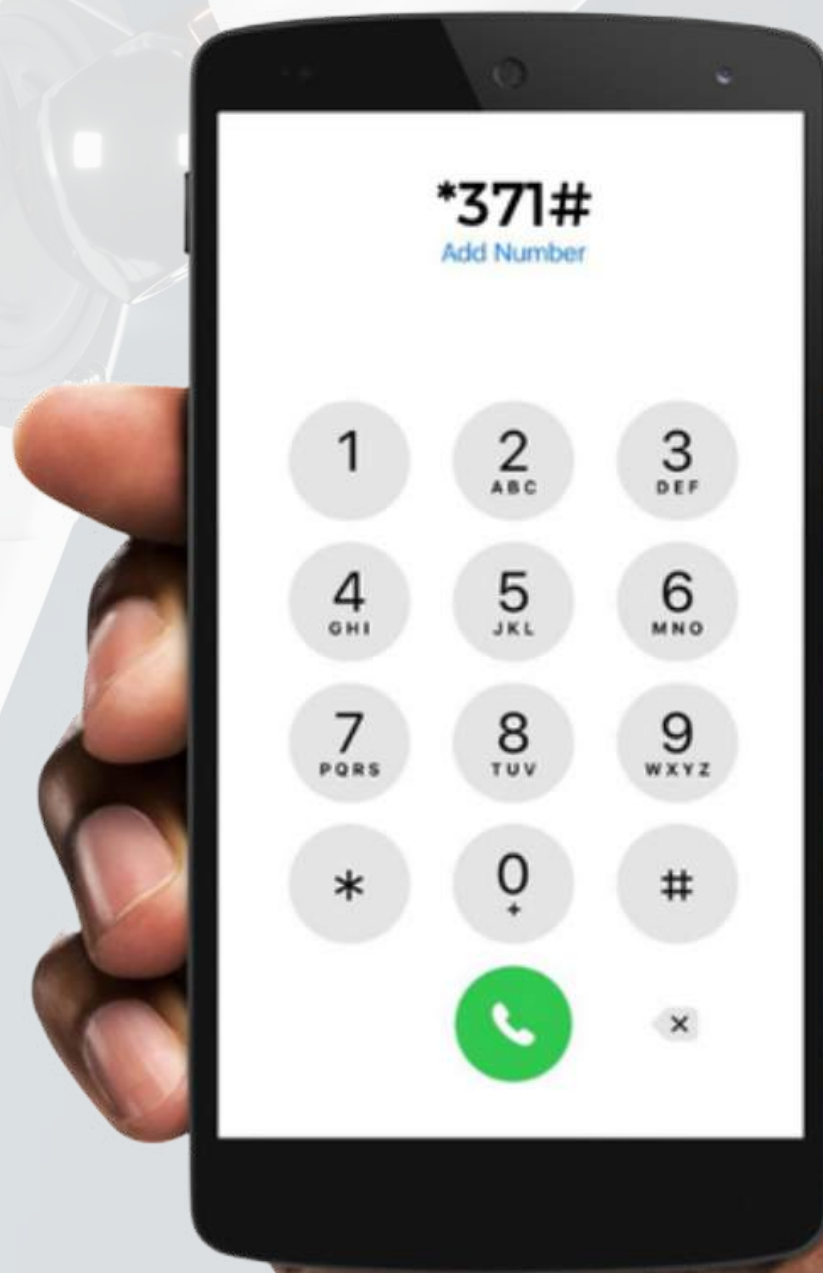
Solution



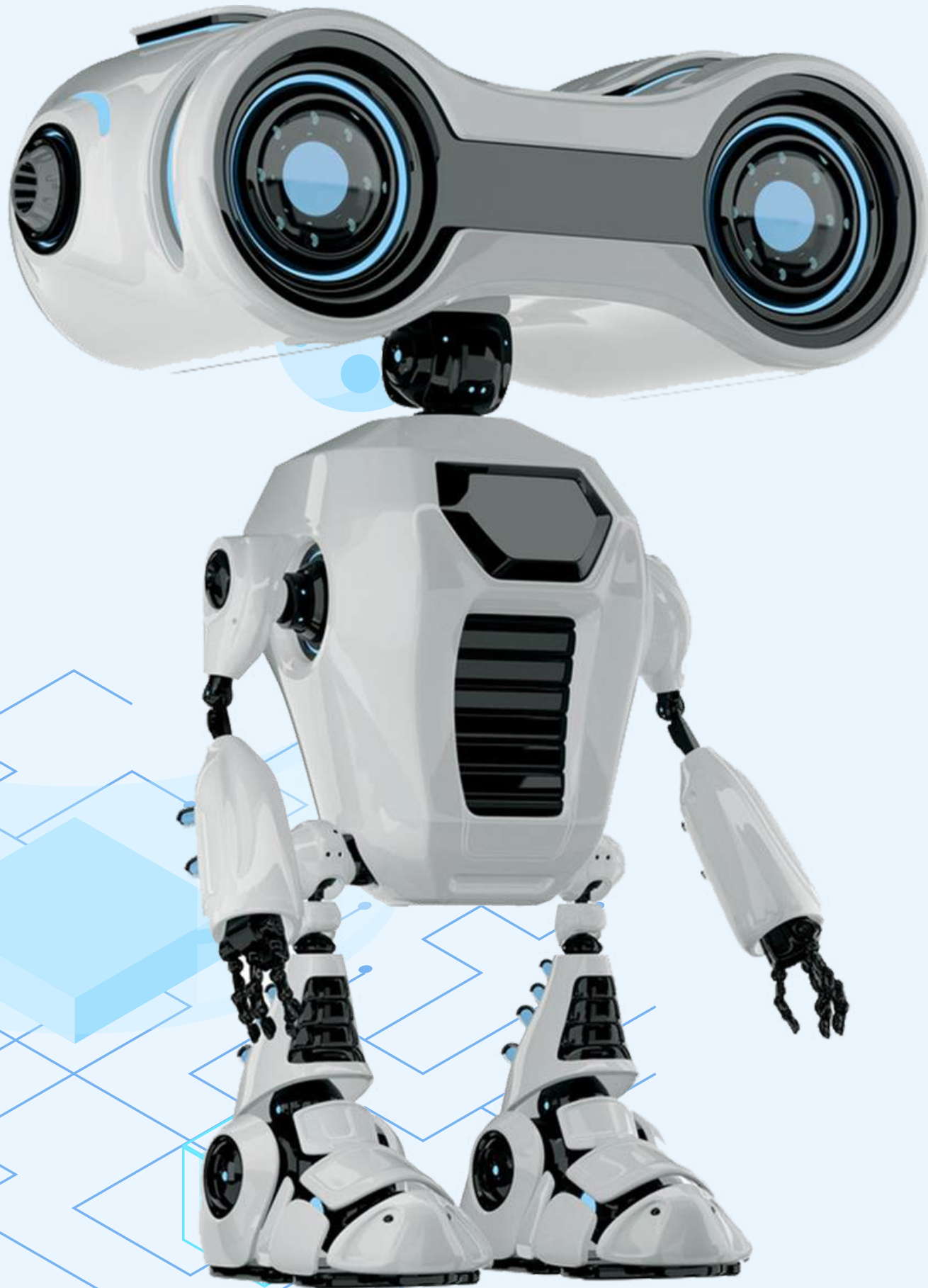
Introducing JusticeLite: an innovative, AI-powered legal assistance service designed to bridge Nigeria's justice gap for underserved communities.

Accessible via low-tech USSD (e.g., *371#) and SMS interfaces, JusticeLite will provide immediate, actionable legal information and guidance in Hausa, Igbo, Yoruba, and Nigeria Pidgin directly to feature phones. This solution empowers citizens with fundamental legal knowledge, covering areas from land rights to family law, and crucially, connects them to physical legal services when deeper assistance is needed.

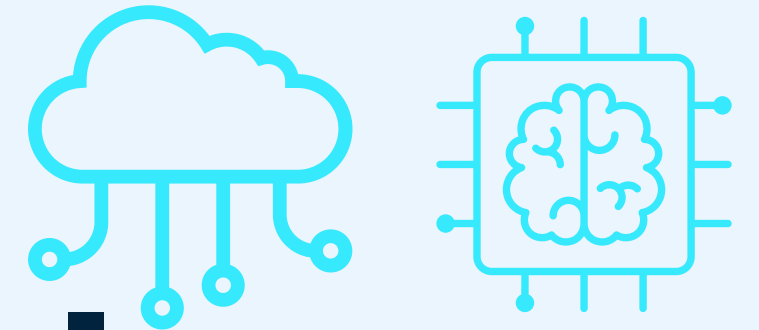
This low-tech solution eliminates the need for internet connectivity, making it accessible to a wider range of users.



Goal and Impact



- Understand Complex Queries in Local Dialects: NLP will interpret user questions posed via USSD or SMS, even when using colloquialisms or code-switching, extracting the core legal need.
- Generate Simplified, Actionable Legal Advice: The LLM will synthesise relevant legal information from its robust knowledge base into concise, easy-to-understand responses delivered directly to the user's phone screen.
- Automated Triage and Referral: Based on the user's query and inferred location, JusticeLite will intelligently identify the type of legal issue and provide immediate contact details (phone numbers, addresses) for nearest registered legal aid clinics, pro-bono lawyers, or relevant community legal service providers via SMS.
- Offline Accessibility: The entire interaction flow through USSD and SMS operates without requiring internet data, making it universally accessible across the country, particularly in remote areas.



Use of Technology

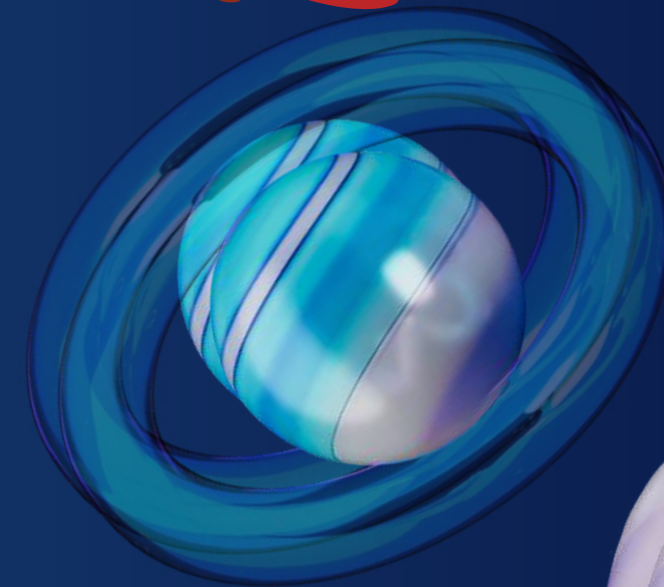
- LLM: Meta Llama-3.1-405B-turbo-4k
- Input: File (File System Recognition) and Voice (ASR Speech Recognition)
- Cloud Knowledge Base
- Retrieval-augmented generation (RAG)
- Python Programming for Machine Learning
- Supervised Learning





Key Features and Benefits

- Natural Language Processing (NLP)
- Cultural Sensitivity and Context
- Knowledge Based on Nigerian Constitution
- Low-Tech (USSD) and SMS
- Easy Integration
- Audio Output for Listening in Local Language.





Target Users

The Innovation: Instead of dry legal texts, JusticeLite will leverage its LLM and NLP capabilities to embody a "Wise Elder" or "Community Speaker" persona, delivering legal insights through culturally resonant proverbs and short, relatable everyday scenarios in Hausa, Igbo, Yoruba, and even Nigerian Pidgin.

This makes complex legal procedures immediately accessible and less intimidating to women and vulnerable groups

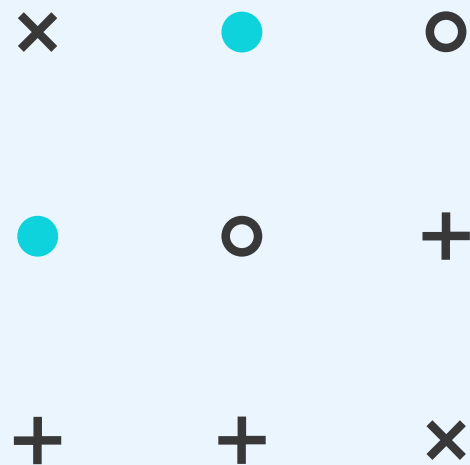




Unique Selling Proposition

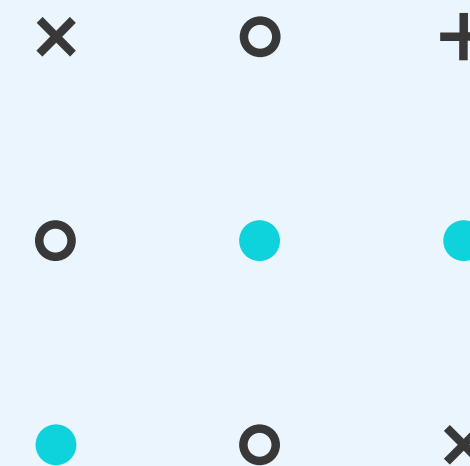
- Integration into widely used social media apps in Nigeria including WhatsApp and FaceBook Messenger
- Translation of Legal knowledge into Nigerian Languages
- Offline and Low-tech availability via USSD and SMS
- Conversational and Interactiveness





Roadmap and Milestones

- Currently, JusticeLite will be available in Hausa, Igbo, Yoruba and Nigerian Pidgin to cater for the legal needs of Nigerians
- The legal documents available will be transformed into datasets translated into focused languages to train JusticeLite, making the resources available to native speakers





Meet The Team



ISRAEL OLATUNJI TIJANI

DATA SCIENTIST



VALERIA EMEREMGINI

UI/UX DESIGNER



UCHENNA ANYAEGBUNA

LEGAL PRACTITIONER/ PROJECT
MANAGER





THANK YOU!

Get in Touch With Us

 +2349076425843

 israel@chatve.co

 @Holatung

 www.chatve.co