



Indian Tax-Bot

By – Mesala Siva Kumar,
Ranjan Ravish,
Bidarakundi Pradeep I,
N. Gautham,
Narayanaguptha Kaushik M.

Why We Need a TaxBot

?

- **Taxation is complex, time-consuming, and prone to errors**

1. **Ever-Changing Laws** – Tax rules frequently update, making manual compliance difficult.
2. **Document Overload** – Users struggle to navigate lengthy PDFs, circulars and time consuming.
3. **Calculation Errors** – Manual tax computations often lead to mistakes, risking penalties.
4. **Lack of Personalized Guidance** – Generic tools fail to address individual tax scenarios.

Problem Statement :

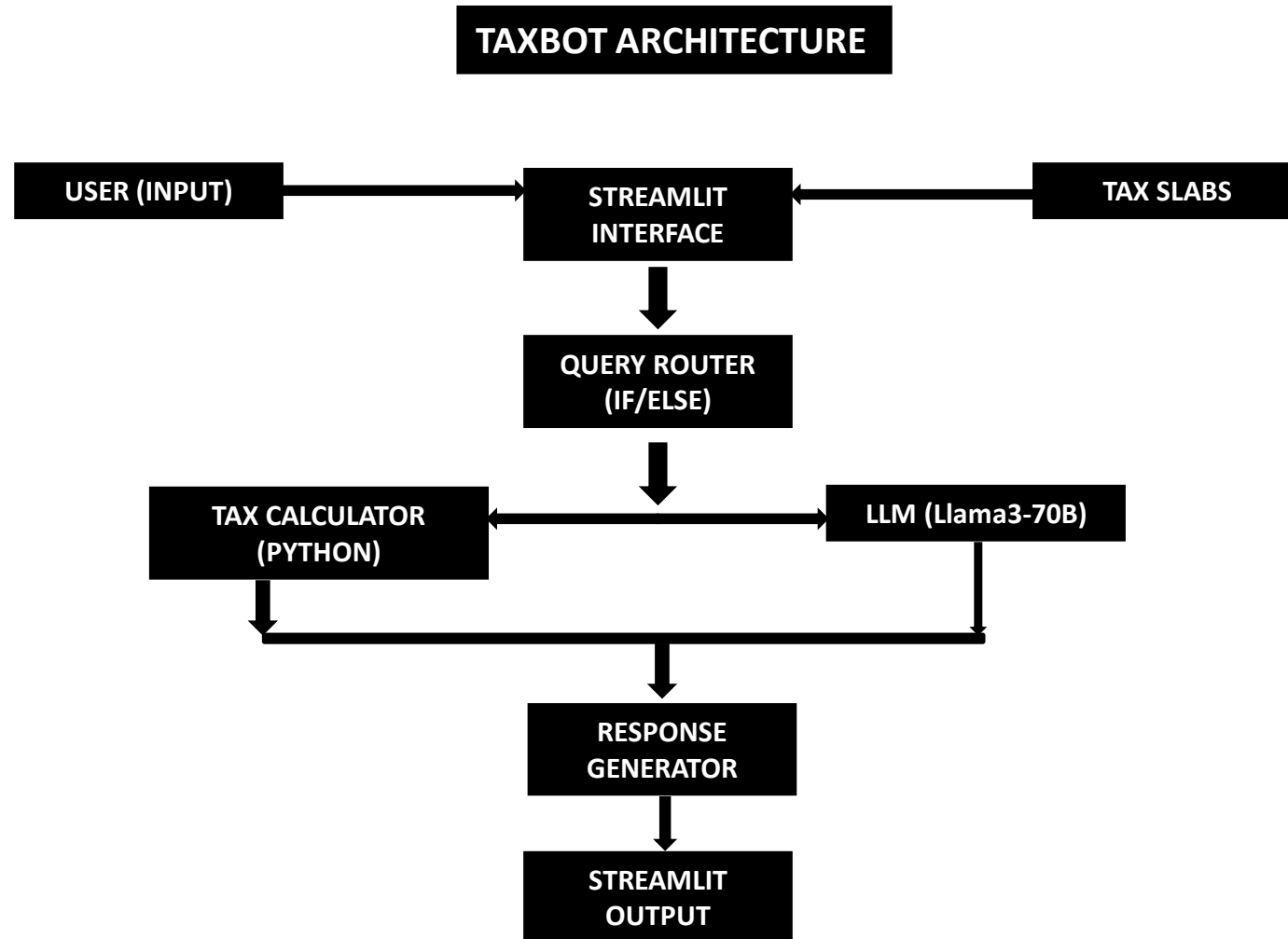
To develop an intelligent chatbot capable of accurately answering all tax-related queries, data analytics to provide precise and user-friendly tax guidance.

Solution Overview

- India's complex tax regimes and manual calculation processes lead to confusion, errors, and inefficiencies for taxpayers. Our AI-powered **TaxBot** solves this by:
 1. Automating accurate tax calculations using slab-wise logic with deductions/cess
 2. Providing instant answers to tax queries via LLM (Llama3/GROQ)
 3. Offering user-friendly guidance through Streamlit's interactive interface

The chatbot eliminates manual errors, simplifies regime comparisons, and makes tax compliance accessible 24/7.

Solution Overview



Technical Stack

How It's Built

Backend:  Python Programming Language,



Llama-3 70B



Groq Cloud.

Frontend:  Streamlit (interactive UI).

Data: Tax Slabs

Some Examples

The screenshot shows the web application interface for the Indian Tax Regime Calculator & Assistant. The browser address bar shows 'localhost:8501'. The page title is 'Indian Tax Regime Calculator & Assistant'. On the left, there is a sidebar with the following content:

- New Tax Regime (2023-24)
- Tax Slabs (Individuals <60 years)
- ₹0 - ₹300,000: 0%
- ₹300,001 - ₹600,000: 5%
- ₹600,001 - ₹900,000: 10%
- ₹900,001 - ₹1,200,000: 15%
- ₹1,200,001 - ₹1,500,000: 20%
- Above ₹1,500,001: 25%
- Standard deduction: ₹50,000
- Health & Education Cess: 4% of tax

The main content area displays a chat interface with the following messages:

- Hello! I'm your Indian tax assistant. How can I help you with the new tax regime today?
- My salary is 660000 and how much i need to pay tax ?
- To calculate your tax liability, I'll consider the new tax regime slabs for the 2023-24 financial year.

At the bottom, there is a text input field with the placeholder 'Ask about India's new tax regime...' and a 'Deploy' button in the top right corner.

The screenshot shows the web application interface after a calculation. The browser address bar shows 'localhost:8501'. The page title is 'Indian Tax Regime Calculator & Assistant'. The sidebar content is identical to the previous screenshot.

The main content area displays the following information:

Given your salary is ₹6,60,000, let's calculate your tax liability:

- The first ₹3,00,000 is tax-free (0%).
- The next ₹3,00,000 (from ₹3,00,001 to ₹6,00,000) is taxed at 5%.
- Since your income is ₹6,60,000, the amount above ₹6,00,000 (i.e., ₹60,000) will be taxed at 10%.

Now, let's calculate the tax:

- Tax on ₹3,00,000 (5%): $₹3,00,000 \times 5\% = ₹15,000$
- Tax on ₹60,000 (10%): $₹60,000 \times 10\% = ₹6,000$

Total tax liability: $₹15,000 + ₹6,000 = ₹21,000$

At the bottom, there is a text input field with the placeholder 'Ask about India's new tax regime...' and a 'Deploy' button in the top right corner.

Thank You