In order to develop a clear and citizen-centered governance ecosystem, we are developing "GovSaarthi" an integrated, real-time platform utilizing an AI engine that fundamentally uses multi-modal intelligence and services to implement and develop numerous use cases in five common areas of public challenge.

1. Traffic and Crowd Monitoring: Real-time video analytics using Florence2 and SAMURAI models with LLM-GPT based query will allow us to monitor the conditions of traffic jammed conditions, analyse density and look for unusual behaviour using CCTV feed.
2. Government Grievance/chatbot legal assistance: An agentic chatbot using RAG (LangChain Pinecone) and PEFT-optimized LLMs will allow individuals to file their grievances online, auto fill forms as well as provide conversational legal assistance on Indian laws and RTIs.
3. Government Scheme Navigator: A multi-lingual AI-enabled recommendation engine that works as an agent to recommend different government schemes based on a user's profile; location, age or income. Tech Stack: GPT-4 or optimized PEFT-LLMs with LangChain, vector based retrieval, FAISS/Pinecone, with front-end Streamlit or React.js and voice based interface using Whisper or Bhashini API.
4. AI Scam Protector for Elderly: An Android app built using Kotlin/Flutter using text-to-speech (11Labs) and speech to text to flag potentially scam calls and SMS messages in real-time and using RLHF enhanced classifiers.

✅ Specific: Develop GovSaarthi, a comprehensive governance platform offering the following features:

* Real-time traffic & crowd monitoring by utilizing video analytics.
* Grievance filing & tracking chatbot integrated with AI Agents.
* Scheme recommendations for citizens based on user profiles.
* An Android application for scam protection aimed at safeguarding the elderly.

📏 Measurable:

* Achieve >90% detection accuracy for traffic & crowd events.
* File and submit grievances with a response time of <3 minutes and >85% automation.
* Achieve >90% relevance in schemes provided to citizens for each user profile.
* Detect scam SMS/calls with 92% accuracy and provide alerts in <2 seconds.

⚙️ Action-Oriented:

* Leverage Florence2 SAMURAI for generating insights from video data.
* Leverage Lang Chain Pinecone PEFT-LLMs for grievance/legal one-stop-shop chat-bot for grievance/legal response.
* Perform scheme search using GPT-4, FAISS and Whisper/Bhashini.
* Design the scam protection android app using Flutter/Kotlin, 11Labs TTS and RLHF.

🎯 Realistic:

* MVP targeted towards 3 cities in India and a suite of 30 central/state urban design schemes and 1 legal domain (e.g. Right to Information).
* Models optimized for low-resource devices and multilingual access.

⏱ Time-Based:

* Provided a full-stack MVP functioning within hackathon timeline.
* The live demo included a video dashboard, grievance chat-bot, Schemes Recommender/Classifier and Android app.