**AI Solution Submission Document**

**1. Problem Statement**

In the healthcare industry, appointment scheduling remains a time-consuming and error-prone process. Patients often face long waiting times, double bookings occur due to lack of real-time synchronization, and front-desk staff spend significant time on repetitive tasks such as confirming slots and sending reminders.

**2. Solution**

We have developed an **AI-powered hospital appointment scheduling assistant** using **VAPI** and **n8n**. This solution automates the scheduling process by enabling patients to interact with a voice-based assistant that can check real-time slot availability, confirm bookings, and send reminders. The assistant handles the entire conversation naturally, ensuring a friendly and efficient booking experience.

**Key capabilities of the solution include:**

* Voice-based natural conversation for appointment booking.
* Real-time slot checking through integration with Google Sheets.
* Automatic booking confirmation and SMS/WhatsApp reminders.
* Scalable to handle multiple locations and doctors.

**3. Tech Stack**

* **VAPI**: Voice AI platform for natural language interactions.
* **n8n**: Workflow automation for slot checking, booking, and notifications.
* **Google Sheets**: Storage for doctor schedules, available slots, and booking records.

**4. Submission Checklist**

* **Source Code / Workflow Design**: Complete n8n workflows and VAPI configuration.
* **Demo Video**: Screen recording demonstrating a sample patient call, slot checking, and booking process.
* **Short Documentation**: This document outlines the problem, solution, and tech stack used.

Github Link :  
[kulvansh5/AI-Powered-Hospital-Appointment-Scheduling-with-VAPI-n8n: AI-powered hospital appointment scheduling system using VAPI and n8n. Patients can book, reschedule, or cancel via a voice-enabled agent. Fetches real-time slots from Google Sheets, suggests alternatives, and logs bookings automatically. Ideal for hospitals, clinics, and telemedicine providers to improve efficiency and patient experience.](https://github.com/kulvansh5/AI-Powered-Hospital-Appointment-Scheduling-with-VAPI-n8n)