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AI Agents Required in Your Hospital Management System

1. AI Assistant Agent (Multilingual Patient Assistant)

- **Role:** Patients ke questions ka reply kare — symptoms, medicine instructions, appointment status, etc.
- **Tools:** OpenAI GPT, Google Dialogflow, Rasa
- **Channels:** WhatsApp, Web Chatbot, IVR
- **Languages:** Hindi, English, Bengali, Tamil (as needed)

2. Medicine Compliance Tracker Agent

- **Role:**
 - Patient ne dawai li ya nahi uska daily confirmation mangta hai (WhatsApp/IVR se)
 - Agar 2 din dawai miss ho toh care manager ko alert karta hai
- **Logic:** Rule-based + optional ML for behavior prediction
- **Channel:** WhatsApp/IVR message automation

3. Appointment Reminder & Follow-up Agent

- **Role:**
 - Upcoming appointment ka reminder bhejta hai (WhatsApp/IVR)
 - Follow-up ke liye auto-schedule ya reminder push karta hai
- **Integration:** Calendar + WhatsApp + Doctor availability

4. Smart Doctor Assistant Agent (Internal Use)

- **Role:**
 - Doctor ko suggest karta hai: previous prescription, allergy, interaction alert
 - Can also summarize patient history
- **Integration:** Patient medical record + AI summarizer (GPT-based)

5. Voice-IVR Bot Agent

- **Role:** Agar patient WhatsApp use nahi karta, toh IVR ke through call karke reminders de
- **Tech:** Twilio Voice, Exotel, Google TTS + Dialogflow/Nuance
- **Language Support:** Regional language voice support

6. Data Insights & Reporting Agent

- **Role:**
 - AI-driven insights: kitne patients ne dawa nahi li, kis age group mein compliance kam hai
 - Hospital admin ya Super admin ko intelligent reports bana kar de
- **Tech:** Python + Pandas + PowerBI or Superset + GPT

7. Anomaly & Risk Detection Agent

- **Role:**
 - Agar kisi patient ka vitals (in future integration) abnormal ho, toh alert kare
 - Risk prediction for non-compliance, readmission, etc.
- **Tech:** ML Model (RandomForest/Deep Learning)

8. Feedback Sentiment Analysis Agent

- **Role:**
 - Patient feedback ko analyze karke batata hai kya negative tha, kis reception kaam accha kar raha
- **Tech:** NLP + Sentiment Analysis APIs