AI Agent Development Challenge –Guidelines

This document contains the official instructions for the **48-Hour AI Agent Development Challenge**.

1. Overview of the Challenge

The goal of this challenge is simple:

➜ **Build a fully functional AI Agent in 48 hours**
that solves a real-world problem in HR, Operations, Sales, Marketing, or Support.

Challenge Duration: 48 Hours
Submission Deadline: **29 Nov 6 PM**

This challenge helps us evaluate practical ability instead of theoretical tests.

2. Choose and ONE Agent to build from the list of 11 AI agent mentioned below.

Category 1 – People & HR

- **HR Assistant Agent:** Answer policy, leave & benefits queries
- **Resume Screening Agent:** Rank resumes based on job descriptions
- **Interview Agent:** Ask questions, evaluate candidate responses
- **Employee Onboarding Agent:** Guide new hires through processes

Category 2 – Business Operations

- **Reception Agent**: Answer voice calls → convert to text → store in DB
- **Meeting Scheduler Agent**: Auto-schedule using Calendar APIs
- **Task Manager Agent**: Track tasks, send reminders
- **Knowledge Base Agent**: Answer questions from company documents

Category 3 – Sales, Marketing & Support

- **Support Assistant**: Resolve FAQs & escalate complex queries
- **Product Recommendation Agent:** Suggest items based on preferences
- **Social Media Agent:** Generate content ideas, daily captions & plans

3. Tools & Technologies (Students may choose any)

AI Models: OpenAI GPT, Claude, Gemini
Frameworks: LangChain, CrewAI, LlamaIndex
Vector DBs: Pinecone, ChromaDB, Weaviate, FAISS
UI: Streamlit, Gradio, HTML/JS
APIs: Google Calendar, Zapier, Notion, Sheets, Calendly, Shopify
Databases: Firebase, Supabase, Notion DB, Google Sheets

4. What You Must Submit (Mandatory)

Your final submission should include:

1. **Working Demo Link**
   (Streamlit, Gradio, or any hosted interface)
2. **Git Repository (Public or Private Shared Link)**
   Must contain:
   o Complete source code
   o Required assets/files
   o Instructions to run locally
3. **Architecture Diagram**
   clearly show how your agent works end-to-end.
4. **README Document**
   Must include:
   o Overview of the agent
   o Features & limitations
   o Tech stack & APIs used
   o Setup & run instructions
   o Potential improvements
5. **(Optional) 2–3 Minute Video Demo**
   A screen recording walkthrough is acceptable.

5. Jury Evaluation Process

After submission:

- Your project will be reviewed by Rooman's AI Jury Panel
- Shortlisted students will be invited for a **Live Online Presentation**
- You will explain:
  ✔ Architecture
  ✔ Reasoning & design choices
  ✔ Demo
  ✔ Q&A with Jury

Final Selection:
Offer letters for the **Stipend Internship** will be issued immediately after Jury approval.

6. Why This Internship Is Unique

- Work on **real AI products** used across India
- Mentorship by engineers from **IITs, NITs & top research groups**
- Exposure to modern AI engineering stacks
- Build agents that can actually be deployed
- Fast-track entry to AI careers
- Top performers may receive a **pre-placement offer (PPO)**

Once you complete the AI agent development challenge. Fill the form mentioned below and submit for evaluation.

https://forms.office.com/r/GQmPNZ6PgG