

## **USE CASE 1: Voice AI Agent for Telephonic screening of Candidates**

Scenario:

Design an automated calling agent that is capable of asking general screening questions eg. Basic Introduction, Skillset, experience, current location, willingness to join etc.

Tasks:

An automated call using HR phone number , real time conversation with candidate

Transcribe audio (use Whisper / Hugging Face)

Run sentiment & keyword analysis

Agent decides:

Tone issues?

Handling candidate queries ?

Recommend better closing line or escalate

Deliver insights as text (or simulated UI card)

Deliverables:

Transcripts + NLP pipeline

Agent reasoning flow (how decisions are made)

Sample feedback snippet

Agentic Element:

The agent transcribes, analyzes, reasons, and screens-in the candidates based on their responses .

# OR

## **USE CASE 2: Predictive Model + Actionable Agent for Project Risk**

Scenario: You build a predictive model for project delays or employee churn, and wrap it with a recommendation agent that advises HR/PMs on what to do next.

Tasks:

Train ML model using real-world dataset (Kaggle/HuggingFace)

Predict: Who is at risk?

Wrap in agent logic that:

Interprets result

Recommends action (e.g., assign mentor, reduce workload)

Notifies user (Slack/email logic)

Deliverables:

Python Notebook + Dashboard mockup

Output recommendations

Short explainer on agent flow

Bonus: Decision tree or LLM-based reasoner

Agentic Element: Predict → Interpret → Recommend → Notify — full AI decision loop.

## **Final Deliverables(CHOOSE ANY ONE USE CASE )**

Item

Description

Code

Collab link or GitHub repo with README

Agent Flow Diagram

PNG or draw.io or Figma diagram

Explanation (PDF/Slides)

One-pager explaining agent use case & impact

Output Screenshots

Sample inputs/outputs of the agent

(Optional) Demo Video

Phone/Screen-recorded demo

### **\*\*Tools Allowed but not limited feel free to choose others :**

Python (LangChain, ChromaDB, FAISS, OpenAI/Claude/Gemini APIs)

Speech: Whisper / Google Speech-to-Text

SQL (for bonus tasks / embedded search layer)

Streamlit / Gradio / FastAPI for simple frontends

AutoGPT/ CrewAI/ LangGraph (for advanced submissions)

Visualization: Notion, Figma, Canva, Mermaid

How to Submit:

Google Drive /GitHub link with: [ While Sharing pls make it accessible ]

Code

Architecture

Demo/video if any