Building a Live Audio Al Interviewer

Scenario: xBites is developing an AI interviewer that conducts live audio interviews. Each AI agent is assigned to interview candidates for a specific role using predefined questions based on their seniority. The agent analyzes responses and generates a ranking based on a set of evaluation criteria.

Your task is to design an <u>audio conversational Al agent</u> to interview junior data scientists in English, below are the set of questions you will ask them along with their grading criteria:

- What is the difference between overfitting and underfitting
 - Grade: 10 grades
 - Competencies: Technical depth
- You are given a dataset with missing values. How would you clean and preprocess the data before using it for analysis?
 - Grade: 20 grades
 - Competencies: Thought process, techniques and business considerations
- 1. Technical Solution Design (expected output: technical design document)
 - Design an end-to-end architecture for the live audio Al interviewer, using diagrams or flowcharts for clarity.
 - Specify the frameworks and tools you would use and justify your choices with comparisons.
- 2. Implementation & Practical Application (expected output: demo & evaluation methodology)
 - Develop a basic working prototype interviewing two candidates demonstrating:
 - How the agent asks audio questions and adapts the conversation.
 - Evaluate the candidates and rank them
- 3. Model Enhancements (expected output : document)
 - Mention the challenges in building the system.
 - Suggest solutions to overcome these challenges.