

## **Weekly Progress Report (Jan 14 – Jan 19, 2026)**

<https://github.com/anisanazim/ACIS-iChatBio>

### **What Did You Do?**

- Developed a JSON-based test framework to validate the agent's natural language understanding, tool selection, parameter extraction, and species identification using mocked workflows (no real API calls).

### **What Problems Are You Facing?**

- The issue is that few of the species are not recognized as a valid species (marked as unresolved), the LLM's prompt interpretation getting confused between "what is" vs "what does it look like", leaning toward the lookup\_species\_info interpretation rather than the image request.

### **What New Capabilities Does Your Agent Have?**

- The agent checks whether extracted parameters are incomplete or ambiguous and identifies when user clarification is required before proceeding.
- When key information (e.g., scientific species name) is missing, the agent clearly explains the issue and prompts the user for clarification rather than attempting invalid tool execution.

### **What Will You Do Next Week?**

- Implement a structured warning system to flag ambiguous or low-confidence queries and inform users when results may be unreliable or incomplete.
- Add proactive assistance features including alternative suggestions, confidence-aware responses, and guidance on improving query phrasing for better results.