Weekly Progress Report (Feb 03 – Feb 09, 2026)

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

Branch - origin/my-improvements

What Did You Do?

- Introduced support for new natural-language query types, including **seasonal comparisons**, **month-based breakdowns**, and **exact-year faceting**, enabling richer and more flexible ALA data exploration.
- Simplified the temporal logic by removing unsupported constructs (e.g., "after 2015") for **taxaCount**, reducing planner conflicts.
- Validated behavior across multiple query types (species search, faceting, seasonal comparison, exact-year filtering).

What Problems Are You Facing?

- The extractor sometimes misclassifies comparison queries (e.g., "summer vs winter") as simple species searches, causing double tool calls.
- Generic facet triggers don't always catch natural phrasing, requiring explicit rules for certain cases (e.g., "break down by month")

What New Capabilities Does Your Agent Have?

- Correctly handles **exact-year filtering** for taxaCount without relying on temporary fields or workflow hacks.
- Robust **month faceting** triggered by natural language ("break down by month", "monthly distribution", etc.).
- Accurate **seasonal comparison** handling via month faceting (summer vs winter, etc.).
- Cleaner, more predictable extraction behavior with fewer edge-case failures.
- Faster, more stable resolver behavior due to reduced parameter mutation.

What Will You Do Next Week?

- Expand and refine natural-language triggers for other facet types (state, species, institution, etc.).
- Improve the extraction prompt structure for clarity and maintainability.
- Continue reducing ambiguity in the planner by tightening the mapping between query types and tool selection.