**TDA-112 – Unified AI Schema Layer — Final Comment**

* Implemented centralized AI schema in app/models/ai.py (Pydantic v2) with strict enums, URL/phone normalizers, and backward-compat aliases (score|confidence → confidence\_score, websiteUri|url → website).
* Added validation entrypoints in services/ai\_validation.py with structlog hooks (ai\_validation\_ok/fail).
* Migrated classify\_bot and eval\_classify to always validate LLM JSON through the unified layer.
* Added/updated tests (happy/alias/invalid, enrichment URL validity). **Result: 7/7 passing.**
* No legacy schemas used in the classification path anymore.  
  **Next (optional):** apply the same validators to any API endpoints that accept AI payloads.