

Ajaneer Igharo

Applied AI Engineer

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Applied AI Engineering | AI for Knowledge Work

PROFILE

Applied AI Engineer building and evaluating agent systems for real organizational workflows. Focus areas include tool use, evaluation, workflow automation, guardrails, observability, structured data, and human oversight. A background in psychology, analytics, information systems, and operations informs a systems approach to AI: define boundaries, measure behavior, expose failure modes, and keep humans in control where risk warrants it.

TECHNICAL SKILLS

Programming & Data: Python · SQL · structured data · analytics · data validation

Applied AI & Evaluation: AI agents · tool calling · LLM evaluation · benchmark design · deterministic scoring · guardrails · human-in-the-loop systems · failure analysis

Engineering & Infrastructure: Git · GitHub · GitHub Actions · CI · CodeQL · ClickHouse · Ollama · Docker Compose · Strands Agents SDK

Systems & Product Thinking: workflow design · measurement design · experimentation · requirements definition · operational boundaries

SELECTED TECHNICAL PROJECTS

Agentic Analytics Lab | Applied AI Engineering · Agents · Evaluation · Analytics

2026

- Built a Python analytics-agent baseline over deterministic synthetic delivery-operations data with dataset-scoped, read-only ClickHouse access, semantic metric guards, and explicit SQL, transport, resource, and dataset boundaries.
- Built deterministic evaluation infrastructure that separates execution success from task correctness, factual consistency, tool grounding, model/tool calls, latency, token use, and repeatability.
- Established a frozen Q1-Q6 benchmark; the accepted single-agent baseline achieved 66.7% task success in each of three runs, with 0.0 percentage-point run-to-run task-success variance, exposing stable failure modes rather than one-off errors.
- Implemented and evaluated an oracle-metadata routed experiment under matched conditions. Runs scored 5/6, 6/6, and 6/6 versus 4/6 in each baseline run; frozen metadata selected deterministic handlers for Q1-Q5, so the experiment does not test natural-language route inference or establish a general multi-agent advantage.
- Maintain automated regression coverage across Python 3.11 and 3.12 with GitHub Actions and CodeQL security analysis.

Technologies: Python · SQL · ClickHouse · Ollama · GitHub Actions · CodeQL · automated evaluation

HomeOps Agent | Human-in-the-Loop AI · Workflow Automation

2026

- Built a deterministic Good Night Check workflow with explicit tool contracts for state inspection, permitted actions, human approval requests, and audit logging.
- Designed risk-sensitive approval gates: low-risk actions can execute automatically, while lock/access uncertainty pauses for human review and failed device calls leave state unchanged.
- Kept device integrations simulated for reproducible testing and wired a Strands Agents adapter while separating live provider behavior from deterministic safety logic.
- Added deterministic tests covering low-risk actions, approval-gated lock behavior, and device-failure paths.

Technologies: Python · Strands Agents SDK · agent tooling · automated testing

Closing the Loop | Product Analytics · Measurement Design · Responsible AI

2026

- Designed a product analytics case study for fragmented customer-portal journeys, with a measurement framework spanning task completion, follow-through, workflow friction, review cycle time, and closed-loop completion.
- Defined a constrained AI scope for summarizing approved source material, organizing tasks, and drafting questions while prohibiting source-record changes, autonomous decisions, and unsupported high-impact actions.
- Framed the work explicitly as a concept and measurement-design case study based on secondary research, not a production deployment or measured outcome study.

EXPERIENCE

Applied AI Programs & Operations Coordinator

2025 - Present

Paul English Applied Artificial Intelligence Institute, University of Massachusetts Boston

- Support applied AI programs, workshops, learning experiences, operational workflows, communications, curriculum materials, and community-facing initiatives across the Institute.
- Co-led planning for a two-day AI and career-development workshop series for UMass Boston career advisors through 10+ collaborative planning meetings, speaker consultations, curriculum development, and rehearsals.
- Led speaker communications, curriculum outlines, and pre-arrival documentation for the series, coordinating materials across student leaders and invited speakers.
- Designed and delivered “AI-Powered Personal Branding,” a hands-on session on evidence-based professional narratives, privacy, accuracy, credibility, and individual ownership when using generative AI.
- Contribute to the Institute’s Student Advisory Council and interdisciplinary AI education, outreach, and program-development work.

SELECTED PUBLICATIONS & PRESENTATIONS

AI-Powered Personal Branding: A Coaching Toolkit for Career Advisors | Author · UMass Boston ScholarWorks · 2026

AI in Education: The Skills Gap Students Are Already Solving Themselves | Solo Presenter · UCTLT 2026 · UMass Boston

Spring AI 2026 Workshop and Speaker Series Report | Co-author · UMass Boston ScholarWorks · August 2026

AI As An Equalizer: Empowering Underrepresented Students for High-Demand Careers | Author · UMass Boston ScholarWorks · 2025

EDUCATION

University of Massachusetts Boston

Master of Business Administration | Expected May 2027

Current coursework: AI Industry Applications Lab · Business Intelligence · Statistical Analysis for Managers

Bachelor of Arts in Psychology | 2026

LEADERSHIP & RECOGNITION

- Student Advisory Council, Paul English Applied Artificial Intelligence Institute
- UMass Boston Alumni Association Scholarship Recipient, 2026
- Excellence in Team Collaboration, PEAAI AI Challenge, 2025
- Girls' LEAP: long-term leadership across mentoring, teaching, board, and project-management responsibilities