RegenMed

ARTICLE

AUDITABLE AI: BUILDING A FOUNDATION OF TRUTH TO ELIMINATE MODEL HALLUCINATIONS

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The integration of Artificial Intelligence (AI) into clinical and administrative workflows is often undermined by the "black box" nature of probabilistic models. In legacy healthcare IT, AI systems are frequently trained on "messy" data scraped from disparate electronic health records (EHR). These datasets contain significant gaps, inconsistent formatting, and unverified identifiers, which cause AI models to "hallucinate"—generating results that are statistically plausible but factually incorrect.

THE LIABILITY OF INFERRED DATA

Probabilistic or "inferred" data models utilize statistical algorithms to estimate patient journeys or clinical events. While these models are capable of handling incomplete data by calculating a confidence score, they introduce a level of uncertainty that is unacceptable in a regulated healthcare environment. For executives, the reliance on inferred data creates several risks:

- **Regulatory Rejection:** Agencies require clear-cut, transparent evidence for drug and device approvals, which probabilistic models cannot provide.
- **Audit Deficits:** Probabilistic systems lack direct, clear audit trails, requiring complex documentation of confidence thresholds rather than simple verification of facts.
- **Operational Errors:** Inaccurate patient-device linkage can lead to significant errors in tracking surgical site infections or long-term complications.

THE CIRCLE DATASET INTERVENTION: PROTOCOL-DRIVEN DETERMINISM

A primary feature of **Circle Datasets** is the elimination of AI hallucinations through the use of **verifiable, protocol-driven data**. Unlike legacy systems that attempt to "clean" data after it has been collected, the Circle Platform ensures data integrity from the moment of inception via its **Observational Protocol (OP)**.

By providing deterministic evidence—exact, verified identifiers such as Unique Device Identifiers (UDI)—the platform ensures that the AI orchestration layer operates on a foundation of absolute truth rather than statistical inference. This high-precision data achieved an average **F1 score of 97%** in validation simulations for variables such as medication history and sex. For healthcare executives, this deterministic foundation provides the auditable, transparent evidence necessary for both regulatory compliance and the reliable automation of pricing and claims processing.

Download RegenMed white paper "Bridging The 17 Years Evidence to Practice Gap" to go deeper.

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