

What is Genetic AI, and how is it different from an LLM?

Short answer: Genetic AI is Cyber Crucible's purpose-built security AI. It models how programs behave — in memory, across processes, and against files — and detects malicious deviations in real time. It is not a large language model; LLMs analyze text patterns, which is a different problem entirely.

What makes it different

- **Purpose-built for security**, not adapted from a general text model.
- **Behavioral, not signature-based** — no signatures, no threat intelligence feeds, no waiting for someone else to discover the attack first.
- **Fully autonomous** — traditional tools rely on human-machine teaming; Genetic AI decides and acts on its own.
- **Pre-execution** — it blocks malicious behavior before it runs, rather than describing it afterward.

Vertical AI

Genetic AI is an example of vertical AI: artificial intelligence customized for the specific challenges of one sector rather than general-purpose reasoning. In security, that specialization is what allows a sub-200-millisecond decision on intent.

The results are measurable — Cyber Crucible has stopped multiple zero-day attacks on customer networks up to 90 days before any other vendor reported or responded to them.

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