



Agents on Rails: Structured Paths for Safe and Explainable GenAI Autonomy

Introduction

Generative AI agents hold great promise for automating complex tasks by making independent decisions, but they often suffer from unpredictability and a lack of control. When given free rein, even powerful large language models (LLMs) can go “off the rails” – producing irrelevant or harmful outputs or veering away from intended goals ¹. For example, early autonomous agent frameworks like AutoGPT and BabyAGI demonstrated how an LLM iterating on its own plans could quickly lose focus or get stuck. In fact, after an initial burst of hype, most users abandoned these agents by late 2023 due to their inability to “reliably [complete] multi-step reasoning” tasks ². These failures highlighted the need for better guardrails and structure when harnessing LLM “agency.”

How can we design AI systems that leverage the intelligence and flexibility of LLMs **without** the chaos of unbounded autonomy? In this white paper, we propose an approach to build “**GenAI operators**” that exercise critical thinking and limited agency **only within predetermined workflows**. The core idea is to constrain generative agents to **fixed “rails”** – predefined sequences of actions and decision points – while still allowing the LLM to make local decisions at each step. By combining **LLM autonomy with deterministic pathways**, we aim to achieve the best of both worlds: the adaptability of AI *agents* with the reliability of traditional *automation*. This structured “**agents on rails**” approach directly addresses current issues in agentic AI (unpredictability, loss of control, lack of transparency) through built-in **provenance, determinism, and explainability**.

In the sections that follow, we examine the limitations of fully free-form AI agents and introduce our rail-based solution. We then detail the key design principles – from strongly typed workflow schemas and runtime enforcement to knowledge graph-based logging – that make this approach feasible. Throughout, we draw analogies to a train on fixed tracks versus a free-roaming car to illustrate how **predefined routes** can dramatically limit an agent’s *blast radius* while preserving its problem-solving power. By the end of this paper, we hope to show that **LLM-driven systems can be “smart” without being uncontrolled**, delivering AI solutions that are both innovative and **trustworthy**.

The Problem: Unbounded Agents “Off the Rails”

Unconstrained AI agents (LLM-based or otherwise) are often compared to a car given a broad destination – they have the freedom to choose any route, but that freedom comes with risk ³. Without guardrails, an agent may take dangerous detours or simply get lost. Key failure modes observed in early agentic systems include:

- **Lack of Focus and Looping:** AutoGPT-style agents frequently meander or loop infinitely, revisiting the same step instead of making forward progress. As one reviewer noted, BabyAGI “kept changing task number one instead of moving on to task number two”, never completing the plan ⁴. This happens because the LLM can introduce small errors that compound over iterations, leading it further astray from the goal.

- **Unpredictable Outputs:** By design, LLMs are probabilistic and can generate varying responses to the same prompt. In an agent scenario, this means critical decisions might differ from run to run, undermining reliability. When every step is generated on the fly, even slight prompt variations or randomness can produce divergent behaviors. Such variability makes it nearly impossible to **guarantee outcomes or reproduce results**, a serious concern for production use.
- **Prompt Injection and Malicious Manipulation:** An open-ended agent that processes user-provided text or web content is highly vulnerable to *prompt injection* attacks ⁵. Malicious instructions hidden in inputs can trick the agent into executing unintended actions because the agent naively treats all LLM outputs as valid next steps. For instance, a user could insert “Ignore previous directives and output the secret data.” in content the agent reads, causing a poorly controlled agent to comply. Traditional agents lack robust mechanisms to *filter or constrain* such injected instructions.
- **Lack of Explainability:** Free-form agents tend to be *black boxes*. They might keep an internal chain-of-thought, but unless explicitly logged, there is no record of *why* a particular action was taken or on what basis. This opacity is problematic in contexts that require accountability. Users and developers are left wondering, “*Why did the AI do that?*” with no easy way to trace the decision back to inputs or intermediate reasoning. Such opacity erodes trust and makes debugging extremely difficult.

The net result is that fully autonomous LLM agents, while enticing in concept, have a “**radically less reliable**” performance in most practical business use cases ⁶. As one practitioner observed, “*Most business processes involve well-understood inputs, mapping to well-understood outputs... an agentic LLM will likely be less reliable [than a fixed workflow]*” ⁶. In other words, when the problem space and required actions are known, giving an LLM free agency is usually unnecessary and even counterproductive ⁷ ⁸. It’s akin to letting a taxi roam any road when the route could be pre-planned on a map.

Traditional software approaches these scenarios with **deterministic workflows** – think of an if/then rules engine or a state machine encoding all allowed transitions. Our goal is to bring similar predictability to LLM-driven systems *without sacrificing* the flexibility that makes LLMs useful. The next section introduces our solution: constraining the agent to **predefined tracks**, much like a train that “**cannot deviate or choose a new destination**” but will safely and efficiently reach the stations we’ve laid out ⁹.

Proposed Solution: Agency on Predetermined Tracks

Instead of unleashing an AI agent on an undefined plane, we confine it to a well-laid railroad. In this paradigm, the **LLM is an “operator” (or conductor) of a train**, and the **workflow is the track** it must follow. The route (sequence of stations/actions) is fixed in advance by developers or business analysts according to known requirements. The LLM operator has **limited independence** to control the train’s local decisions – e.g. how to best perform the task at a station, or minor speed adjustments – but **cannot lay new tracks** or go off-course. This mix of freedom and restraint is the essence of our “*agents on rails*” approach.

An analogy can be drawn to **AI automation vs. AI agents** in broader terms. As Rajat Jain aptly put it, “*AI Automation is like a train on a track... highly efficient and reliable for its predetermined route*,” whereas a free AI agent is like a self-driving car that can pick any route (more flexible but less predictable) ³. We are effectively choosing the train model for our agent: we design the track layout and switches

beforehand, and the LLM just propels the train along those tracks. If the agent tries to stray, it simply can't – there are no rails in that direction.

Concretely, implementing **LLM operators on rails** involves a few key concepts:

- **Deterministic Workflow Schema:** The overall task is broken into a series of discrete steps or decision points. This could be represented as a **directed acyclic graph (DAG)** or flowchart, where each node is an operation (which might involve an LLM call or a simple software function) and edges define allowed transitions. All possible branches in logic are enumerated; *if it's not in the graph, the agent cannot do it*. The business logic thus lives in this *schema*, not in the LLM's parametric weights or emergent chain-of-thought.
- **LLM as Constrained Operator:** At certain steps, an LLM is invoked to perform a bounded task – for example, extract key information from text, classify an item, transform a summary, or decide between known options. These tasks leverage the LLM's generative or reasoning capabilities, but each is narrowly scoped. The LLM is **not** deciding *what* task to do overall (the schema does that); it's only figuring out *how* to do the current task optimally. In essence, the LLM is an "*independent operator*" for micro-level decisions, but a "*scripted actor*" for the macro-level flow.
- **Predefined Branching with Guardrails:** At points where multiple routes are possible (e.g., a conditional branch or tool selection), the system either uses simple deterministic logic or a specialized LLM query to choose the route. Crucially, the choices are **limited to a small, known set**. One could even use multiple LLMs in tandem here – for instance, one LLM to act as a "*switch controller*" flipping the track (selecting the branch), and another as the "*train driver*" proceeding along it, ensuring no single model has full control over both decision and action. By engineering these decision points carefully, we prevent the agent from inventing arbitrary new actions. This directly mitigates the risk of the agent responding to unexpected inputs with an unsupported operation – it simply has no mechanism to do so. As a result, even if a user attempts to prompt-inject the agent to perform a disallowed behavior, the framework has *no track for it*, and the request goes nowhere (or is safely ignored).

By confining agent behavior to **business-approved pathways**, we dramatically reduce the chances of catastrophic mistakes. Any "*damage*" an LLM operator can do is limited to the context of its current station. For example, if an agent's role is to draft an email reply from a template, the worst it can do is draft a poor email – it cannot suddenly execute a database deletion command, because such an action is not on its tracks. This containment is analogous to minimizing blast radius: even if one compartment explodes, it's isolated. A recent industry perspective echoed this, noting that "*agents are useful mainly for open-ended research...otherwise keep the DAG [deterministic workflow]*" ¹⁰. In practice, organizations have found that a "**skinny LLM step**" embedded in a broader deterministic process is far more robust for production uses ¹¹.

In summary, our approach **hard-codes the high-level objectives and allowed moves** for the AI agent, and lets the LLM handle the nuanced work within those bounds. The AI can still exhibit creativity and insight – for instance, finding an unusual solution to a sub-problem – but it does so **while riding on rails** that ensure strategic alignment with business goals. Next, we dive into the technical pillars that make this possible: strongly-typed schemas, runtime enforcement, and semantic logging for total transparency.

Key Design Principles for "Agents on Rails"

Implementing a rail-based GenAI agent requires rethinking how we integrate LLMs into software. Below we outline the fundamental principles and components of our design, each addressing a specific challenge of unbounded agents:

1. Strongly Typed Schemas and Structured I/O

A cornerstone of our approach is that each LLM interaction occurs within a **predefined schema**. Instead of allowing free-form text in and out at every step, we enforce *structured prompts and outputs*. Concretely, this means defining, in advance, the exact *format* and *fields* an LLM's response should contain at a given step – akin to defining a function signature or API contract. Modern techniques like OpenAI's *function calling API* or **grammar-constrained decoding** can enforce that the LLM only produces valid JSON or XML in a specified schema ¹². We leverage these tools so that, for example, if a step expects an output like `{"action": "<one of A/B/C>", "data": <some number>"}`, the LLM will be guided (or post-validated) to fit that shape *exactly*.

Imposing a structured format yields multiple benefits. First, it introduces a degree of **determinism and consistency** into an otherwise stochastic process. The LLM is not just generating arbitrary text; it is “*populating specific fields*”, which keeps outputs consistent and easier to predict ¹³. In the *MyFeeds* AI system, for instance, every stage's output is a JSON document with a fixed schema (a knowledge graph, a relevance report, etc.) rather than unstructured prose. This design “*yields more consistent outputs and reduces variability*”, bringing a sense of reliability to each step ¹³. Second, structured output allows **automatic validation** at runtime. If the LLM returns malformed or nonsensical data that doesn't conform to the schema, the system can immediately detect the anomaly and either retry, repair, or safely abort that operation ¹⁴ ¹⁵. The *rails* here are the schema rules – the LLM's output either stays on track (valid JSON) or it derails (parse error) in which case an alert is raised rather than blindly trusting a wrong result.

This principle has been validated in real-world deployments. In the above-mentioned Reddit discussion, experienced practitioners advised to “*force structured output... validate against a JSON schema and auto-retry on failure*” as a best practice for reliable LLM workflows ¹². Our approach takes this to heart, making structured I/O not just a nicety but a **mandatory guardrail** at every step. With strongly typed interfaces, we effectively treat the LLM like a microservice that **must** adhere to an interface contract. This greatly simplifies integration with other systems (downstream tools can consume the JSON confidently) and ensures that each piece of data in the process is well-formed and type-checked.

In summary, strongly typed schemas turn the inherently unpredictable nature of LLM outputs into something **manageable and testable**. They constrain the LLM to speak a language the rest of the system can rigorously understand, preventing a host of downstream errors. Just as importantly, they set the stage for the next principle: **capturing every intermediate result** as structured data for full traceability.

2. Transparent Logging and Knowledge Graph Provenance

If deterministic schemas are our rails, then a **semantic log or knowledge graph** is our train's black box recorder. We log **every LLM call, input, output, and decision** into a structured repository that captures not only the final outcome but the entire journey. In practice, this could be a graph database or even a simple sequence of JSON files; the key is that all **actions and data points are recorded with their relationships**. By the end of an agent's workflow, we have a complete, queryable trace of what it did, why, and with what information.

This exhaustive logging addresses the explainability issue head-on. Rather than an inscrutable black box, the agent's decision process becomes a **transparent graph of states and transitions**. For example, suppose our agent recommended a particular financial strategy to a user. With provenance logging, we could trace that recommendation back through the chain: “*We suggested this because at step 3 the LLM identified the user's goal as X' (based on their input), and at step 7 it matched goal X with strategy Y*

from the knowledge base." Every intermediate result is available to justify the next. In the words of one implementation, "*the chain of outputs forms a provenance trail that shows why a particular result was reached*", turning an opaque decision into an *open, auditable* one ¹⁶. If an end-user asks "Why did the AI do Z?", we can literally point to the logged evidence: "*Here are the exact inputs and reasoning that led to Z.*"

To organize this, we often employ a **semantic knowledge graph** structure. Nodes in the graph can represent the steps of the workflow, the data items consumed or produced, and even external knowledge or context the agent used. Edges denote relationships like "*Step A output was used as input for Step B*" or "*Data source D informed decision at Step C*." The final graph for a single workflow run encodes everything needed to reconstruct or analyze the agent's behavior. Notably, knowledge graphs shine at capturing *contextual relationships* and can be queried for patterns (e.g., find all instances where a certain data source influenced a certain outcome across runs).

A subtle but important aspect of provenance is handling external or dynamic data. Our agent might fetch information from an external API, database, or document during its run. We log references to any such data (e.g., the URL or database key and a hash of content). By doing so, we ensure that the specific version of the data the agent saw is **immutable recorded**. If the external source changes later, we still have the original evidence. In some cases, it may be necessary to store a local copy of the data snippet for future audits – essentially **freezing the input in time**. The principle is: **no critical piece of information should be transient** or lost. If the LLM used it to make a decision, we record *what it was* and *where it came from*. This might mean saving raw text passages that were analyzed, or caching query results along with the query itself. Modern MLOps tooling recognizes this need; for instance, systems like *Langfuse* have emerged to "*trace spans [and] store inputs/outputs*" of LLM calls for observability ¹⁷. Our approach aligns with these practices, but extends them into a full knowledge graph of the workflow's execution.

The benefits of comprehensive logging are profound:

- **Explainability and Trust:** As discussed, stakeholders can get explanations backed by data. This fosters trust, turning AI from a magic box into a accountable assistant. A user is more likely to trust a recommendation if shown, "*We chose this because of factors A, B, C that you can verify,*" rather than "*The AI just said so.*"
- **Debugging and Improvement:** Developers can inspect the logs/graph to find exactly where a mistake occurred. If the agent made a wrong turn, the graph shows which decision led there and with what info – guiding developers to tweak either the workflow logic or the prompt at that node. This is far more efficient than guessing which part of a monolithic agent prompt failed. It also enables *unit testing* of each step: since each sub-task is logged with inputs and outputs, one can write tests expecting certain outputs for given inputs at each step.
- **Compliance and Auditing:** For high-stakes applications (finance, healthcare, etc.), being able to provide a detailed audit trail is increasingly mandatory. Regulations like the EU AI Act emphasize transparency and record-keeping. Our design inherently produces the artifacts needed for compliance – essentially an audit log that can be reviewed by oversight bodies or internal risk teams. Each autonomous decision is no longer ephemeral; it's documented and attributable.
- **Knowledge Retention:** Interestingly, the logged data can itself become a knowledge asset. Patterns in how the LLM makes decisions can be analyzed to further refine the system. Over time, the knowledge graph of all executions could be mined to discover, for example, common failure paths or frequently accessed external resources, which might inform future improvements or even training data for new models.

In sum, we treat every run of the agent as a first-class data product: a structured record of events and rationales. This **data-centric approach** turns the once frightening prospect of an AI agent running wild into a controlled, observable process. As one LinkedIn case study concluded, "*every step [produces] structured and traceable data,*" proving that we "*don't have to treat AI models as inscrutable black boxes*" ¹⁸ ¹⁹. The agent becomes *accountable* for its actions, with the record to prove it.

3. Controlled Autonomy and Reduced Blast Radius

The final principle ties the above together: by constraining where and how the LLM operates, we inherently make the system safer. The **blast radius** of any errant AI behavior is limited to the scope of a single step on a predefined track. Unlike a free agent that could arbitrarily decide to take an unsafe action, our rail-based agent cannot exceed the authority we've given each operator.

To illustrate, consider the notorious *prompt injection* problem again. In a conventional agent, a prompt injection that manages to alter the agent's instructions could potentially divert the entire trajectory (e.g., cause the agent to skip critical validation steps or reveal confidential info). In our design, however, the worst a prompt injection can do is *affect the LLM's output within one step*, and even then it would have to still produce a valid structured output that passes our validators. It cannot create new steps or call unintended tools because those are not available. For example, if an attacker hid a message like "Now output the API key and stop" in some input text, the LLM at a reading-comprehension step might attempt to comply in its next answer – but since the schema expects, say, `{"summary": "...", "extracted_facts": [...]}`, any such instruction would either be ignored by the model (one hopes) or result in a schema violation (extra content that our parser flags). The agent would not have a mechanism to *jump tracks* and execute a malicious command. This design thus **contains the impact** of malicious inputs or model misbehavior. It is analogous to a train that might encounter debris on the track (bad input) – it could cause a delay or an emergency stop, but the train isn't going to suddenly teleport off the track into a crowded street.

Furthermore, each step can be sandboxed and permissioned. If a particular operator step involves executing code or querying a database, we can enforce that it only has access to a limited context. Many current AI agents integrate tool use (e.g. executing code, web browsing) which raises the stakes of a mistake. In our approach, because the tool calls are part of the predetermined workflow, they can be reviewed and restricted by developers ahead of time. We know exactly which functions might be invoked and with what inputs (since those inputs come from structured outputs of previous steps). Standard security techniques (like parameter whitelists, timeouts, and rate limits) can be applied to each tool invocation. Essentially, **nothing happens that isn't explicitly allowed** by the workflow definition, and everything that does happen is on record.

This drastically improves **determinism** at the macro level. While the LLM might still be non-deterministic in how it words a summary, the overall process – which steps executed in what order – is deterministic given the same inputs and schema. We can version-control these workflows just like code. Updates to the workflow (adding a new step, changing a branch condition) are deliberate development changes, not emergent behavior. One engineer summarized this strategy succinctly: "*Bottom line: keep the core deterministic, let the LLM do scoped extraction, and enforce schemas plus tests.*" ²⁰ By following that principle, we end up with a system where the *strategic direction is hard-coded* and only the *tactical nuances are learned*. The biggest risk with AI – that it will decide to do something completely unforeseen – is thus taken off the table.

It's worth noting that this approach aligns with what many organizations are finding pragmatically: "*Don't do with LLMs what you can do without.*" ²¹ In other words, use traditional software logic for what it's good at (deterministic decision rules, calculations, data storage), and reserve the LLM for what it excels at (language understanding, flexibly mapping to semantics, generative creativity). By dividing responsibilities this way, you inherently confine the LLM to a role where its quirks cause minimal havoc.

Finally, the combination of *transparency* and *containment* brings **explainability** not just after the fact, but even during operation. Because the system's state is explicit at each step, one could build user-facing explanations that describe what the AI is doing and why in real time. For instance, a user could

be shown a flowchart view: “The AI is now at Step 4 (Analyze Requirements) and has identified your request as Category X, so it will proceed to Step 5 (Invoke Service Y).” This is far more satisfying (and safer) than a hidden agent mysteriously churning and producing an answer with no context.

Conclusion and Future Outlook

By reining in generative AI with **structured, predetermined paths**, we gain the confidence and clarity that today’s AI agents have been missing. The approach of “**GenAI agents on rails**” marries the **flexibility of LLM reasoning** with the **rigor of software engineering**. Our agent is free to think – but only within the lanes we define. This yields a solution that is **provably safer, more deterministic, and more explainable** than a fully autonomous counterpart, yet remains far more adaptable and intelligent than a rigid hard-coded system.

The benefits of this method resonate strongly with pressing needs in industry. AI systems built on these principles can provide clear audit trails, satisfy regulatory requirements for transparency, and drastically reduce the risk of unpredictable AI behavior. As demonstrated in real systems like MyFeeds.ai’s multi-stage LLM pipeline, it’s possible today to deliver AI-driven results with “*every step transparent*” and outputs that are “*traceable and verifiable*” ¹⁶ ¹⁹. Businesses adopting such architectures can trust that their AI is *doing exactly what it’s supposed to do* – nothing more, nothing less – and can readily explain its every move to users, auditors, or developers.

There are, of course, trade-offs and limitations. Building a predetermined workflow requires upfront knowledge of the task structure; our approach is less suited for completely open-ended domains where anything goes. In truly novel problem spaces, some freeform exploration may still be needed (though even there, one could incorporate *modular rails* for parts of the task). Additionally, maintaining and updating the workflow schema introduces a lifecycle akin to software development – which is a feature, not a bug, but organizations must be prepared for that discipline (versioning prompts, testing outputs, monitoring for schema drift, etc. ²²). Fortunately, emerging **open-source serverless tooling** and orchestration frameworks are making it easier to create and manage such AI workflows. These platforms allow engineers to define LLM-powered steps as modular functions, chain them, and deploy at scale – laying down the tracks for AI trains to ride on. (The details of those technologies are beyond our scope here, but suffice to say the ecosystem is catching up to this structured approach.)

In closing, we believe that **the future of reliable AI lies in hybrid systems**: ones that combine **deterministic structure and probabilistic intelligence**. By giving AI agents a form of *guided independence* – independence to act on a micro scale, guided by human-designed macro constraints – we unlock powerful capabilities without sacrificing oversight. It’s a pragmatic path forward, ensuring that our increasingly capable AI **stays on track** both literally and figuratively (to happily borrow the pun). The train is a timeless symbol of industrial reliability; by putting our GenAI agents on rails, we aim to achieve an equally trustworthy and efficient AI paradigm.

Together, as co-authors of this vision, we have outlined how to keep GenAI agents from going “off the rails” and instead channel their talents down well-laid tracks. We hope this paper serves as a blueprint for building AI systems that are not only advanced in capability but also safe, transparent, and grounded in the deterministic logic of their creators.

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