



THE GENERATIVE AI SOLUTION FOR TELECOM DATA.

Telco Troubleshooting: Stuck in the Slow Lane

Network troubleshooting for telecom operators often relies on traditional tools like Wireshark and tcpdump. These tools are powerful, but connecting the dots across different network interfaces when tackling complex challenges can be daunting. Analysts typically spend hours, or even days, scripting and applying specialized knowledge to trace root causes and uncover insights.

How About Just English?

Imagine being able to ask your data straightforward questions like:

Show me the area with the highest concentration of Radio Link Failures (RLF) over the last 24 hrs

Give me the hourly average Received Signal Strength Indicator for this area over the last day.

Were there any adverse weather events in this area during the past day?

With Kinetica powering your generative AI application, analysts can intuitively ask these types of questions and receive answers in seconds. You still need domain expertise to ask the right questions, but with Gen. AI apps powered by Kinetica, it becomes much easier to drill down to

the root cause without undergoing a lot of onerous, manual work.

A sample task simplified by Kinetica:

```
Unset
-- A sample wireshark expression to
match IP addresses ending in 255 in a
block of subnets (172.16 to 172.31)
string(ip.dst) matches
r"^172\.(1[6-9]|2[0-9]|3[0-1])\.[0-9]
{1,3}\.255"
```

With Kinetica, you can replace complex regular expressions and manual data sifting like above with simple, natural language queries that directly answer your business questions.

Kinetica: Built for the Speed of Thought

Traditional big data analysis relies heavily on preparation and engineering. Conversational AI disrupts this by requiring immediate answers to unpredictable questions. Kinetica's GPU-accelerated engine is designed for speed, complexity, and flexibility, powering real-time generative AI at enterprise scale.

- **Built for Scale and Speed:** Powered by the latest GPUs and CPUs, Kinetica tackles enterprise-scale data without breaking a sweat.
- **Instant Insights:** Kinetica processes massive datasets and complex queries on the fly, delivering answers to your generative AI application in seconds.
- **Multi-modal analytics at Your Fingertips:** Kinetica tackles the full range of analytics needed for conversational AI (geospatial, time-series, graph etc.), giving you the freedom to ask anything and get immediate insights.

Kinetica: Giving Your AI the Tools it Needs to Talk to Data

Large language models have incredible potential, but to unlock the value of enterprise data, they need to understand your specific world. Here's how Kinetica bridges that gap:

- **Understanding Your Data Landscape:** Kinetica maps your data—tables, relationships, and security rules—giving the AI model the context it needs to ask meaningful questions within your security framework.
- **A Telco-tuned LLM:** Our pre-trained telco LLM understands telco jargon, data schemas, and typical questions, giving you a head start when building an application. You don't need to worry about fine-tuning your own LLM (unless you want to!).
- **Flexibility:** While our telco LLM makes things easy, you have the freedom to bring your own language model and integrate it seamlessly with Kinetica using our SQL-GPT API and Langchain plugins.

Kinetica provides an end-to-end platform that combines raw compute power with a semantic layer for your data, a telco-tuned LLM and an easy to use interface to unlock the full potential of generative AI for your telecom operations.

Jumpstart Your Generative AI Success with our Starter Kit

Not sure where to start? Our AI Starter Kit, powered by Kinetica, Dell, and NVIDIA, delivers everything you need to bring a powerful generative AI solution to life – fast.

- **Accelerate Time to Value:** Our kit combines best-in-class hardware and software with expert guidance, simplifying deployment and ensuring your first project delivers rapid results.
- **Focus on Impact:** Target high-value use cases like intelligent network troubleshooting or predictive customer churn analysis with our focused solution.
- **Free Demo Available:** Experience the power of Kinetica with a free demo. See firsthand how your operations can be transformed with our technology.

Get Started Now!

Let's discuss your specific AI goals and tailor the starter kit for maximum impact.

Contact us at talk@kinetica.com