TECH INNOVATORS NETWORK

newsletter

THiNKiT

The Launch of Bot of Bots

MOBILE GET IT ON Google Play

WEB: www.web.think.ke

NB: you shall be required to create a THiNK_ID to access our platforms and tools

ALSO IN THIS ISSUE:

This has been an exciting quarter for THiNK as we finally launched the THiNKiT: Bot of Bots chatbot platform on 1st of June (Madaraka Day).

Our dynamic platform is available on Web and Mobile (Android - Google Play Store). THiNKiT: Bot of Bots powerfully leverages the community business and collaboration to innovate and scale local AI chatbots and technology solutions, whilst intentionally and conscientiously offering a home for safe and responsible AI.

From public service, to sports, to enterprise, THiNKiT is focused on building and deploying intelligent, context-aware, and ethically grounded bots across diverse sectors such as public service, sports and manufacturing.

In the context of Public Service, we offer GovBot, an AI-powered assistant integrated with Kenya's eCitizen platform. GovBot transforms and simplifies how citizens access government services - offering instant, accurate responses from business registration procedures and fee structures to Huduma Centre locations. By reducing call centre traffic and making official information searchable, traceable, and available throughout GovBot enhances service delivery without compromising trust or control.

In the context of sports and leisure, we deployed the Tennis Bot; a specialized bot designed to democratize tennis knowledge and foster growth of the sport across Kenya. Tennis Bot provides tailored, culturally relevant insights with ethical intelligence for beginners to seasoned professionals.

'THiNKiT' Bot of Bots is committed to Responsible AI through our Conformity Assessment Process (CAP). Consequently, every bot created on the platform undergoes five essential phases:

- Ownership Verification
- Data Evaluation
- Model Assessment, Validation & Testing
- Ongoing Monitoring.

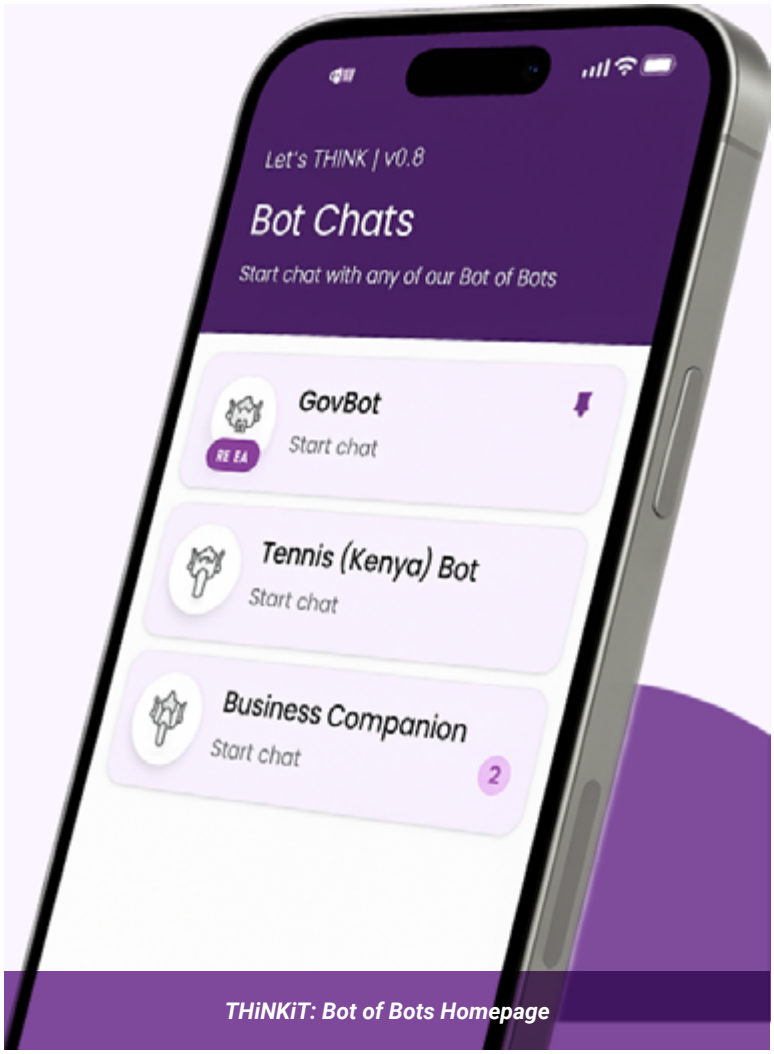
This ensures every solution is technically sound, ethically aligned, transparent, and safe, meeting the highest standards for AI development in Kenya and Africa.

We warmly welcome external bots for deployment on our Safe, Responsible, and Efficient platform.

Have you developed a bot and want to join the THiNKiT: Bot of Bots platform?

If so, you can submit it for assessment and inclusion. Your bot will undergo a rigorous review through our CAP process and Data Quality Framework. If it passes, you'll receive a Verification Certificate, and your bot will be added to the Verified section. To distinguish it from the crowd, it will also earn the THiNK mark of quality — a visible symbol of trust, ethics, and technical excellence.

Together, these bots represent what's possible when innovation meets intention.



THiNKiT: Bot of Bots Homepage

THiNKiT is more than just a platform for bots, it's an enabling infrastructure for developers across Kenya. As part of the THiNK Community of Practice Developer Program, students, innovators, and technologists are empowered to build, test, and deploy AI-powered solutions using THiNK's platforms, tools, and data resources. Designed to hyperscale innovation, THiNKiT lowers the barriers to AI development by offering ready-to-integrate components, ethical AI pipelines, and real-time deployment capabilities. By fostering responsible innovation, practical skills development, and a strong collaborative ecosystem, THiNKiT serves as the launchpad for the next generation of AI developers committed to real-world impact.

COMMUNITY HIGHLIGHTS

Shaping the Future of AI Governance: THiNK's Journey from Policy to Practice (2022–2025)

Championing AI Safety: THiNK's Role in Kenya's AI Code of Practice

THiNK has played a leading role in shaping Kenya's AI governance landscape. Our journey started with an online exchange on February 23rd 2022, titled *"Towards an AI Code of Practice."* The session focused on whether the AI community can effectively self-regulate in the absence of formal legislation. It featured a distinguished panel of experts, including Dr. Lilian Wanzare from Maseno University, Monica Okoth from the Kenya Bureau of Standards, and Martin Mbaya from Strathmore University/AkiliAI. The discussion was moderated by Brian Omwenga from THiNK.

In 2023, THiNK formally engaged the Kenya Bureau of Standards (KEBS), contributing to the development of the country's first AI standard (**DKS 3007**) and introducing the **Conformity Assessment Process (CAP)** to align AI systems with international best practices.

By 2025, THiNK participated in a technical community validation workshop with various participants within the tech space to review KEBS' draft standards, after the completion of the public participation period. For more information, visit: **https://www.kictanet.or.ke/strengthening-kenyas-ai-ecosystem-validation-of-dks-3007-code-of-practice-for-artificial-intelligence**.

Angela, our DevOps Engineer and Quality Assurance lead, presenting the Data Quality Framework at the Edge Convention Centre

THiNK - A Community of Communities

THiNK Showcases Effective Communities at the Meta Youth Summit 2025

At the Meta Youth Summit 2025, the Tech Innovators Network (THiNK) unveiled three transformative programs aimed at empowering young AI enthusiasts across Kenya.

Participants at the Meta Youth Summit

THiNK team members at the Meta Youth Summit

Paul, our Software Engineer at THiNK, facilitating participants at the Meta Youth Summit

Developer Program

The first was the THiNK Community of Practice Developer Program, which equips students, innovators, and technologists with the skills and tools to build, test, and deploy AI-powered solutions using THiNK's platforms and data. The goal is to grow a collaborative ecosystem that fosters responsible innovation and real-world Impact.

Partnership Program

The THiNK Partnership Program targets techpreneurs and innovators interested in entrepreneurship, product deployment, and digital extension. Participants are invited to become trusted resellers of THiNK technology or technology from within the wider THiNK Community. Resellers earn a commission by selling and promoting THiNK's AI tools such as chatbots while gaining business experience and helping organizations embrace modern technology.

Micro Gig Program

The THiNK Micro Gigs program voice collection initiative (with over 10,000 Kenyans registered building local language datasets), lets users earn money by executing micro-tasks such as submitting voice notes in local languages, contributing to AI development and preserving linguistic diversity. With over 10,000 users already participating, the platform is part of a broader gig economy offering that includes surveys, innovation, and research opportunities. These initiatives highlight THiNK's commitment to equipping youth with the skills and pathways to thrive in a community-driven inclusive AI future. You can explore the community of practice at www.cop.think.ke.

Botathon #10: Mama Ngina University

THiNK Marks Milestone 10th Botathon at Mama Ngina University College

The Tech Innovators Network (THiNK) successfully hosted its 10th Botathon at Mama Ngina University College (MNUC), marking a major milestone in its mission to empower youth through AI.

The two-day event brought together over 50 brilliant students across 15 teams for an immersive experience of learning, building, and innovating with AI. Participants explored advanced concepts such as Retrieval Augmented Generation (RAG) and took part in discussions on developing safe, responsible, and fair AI for real-world impact. The Botathon blended technical depth with a focus on ethical innovation, showcasing the creativity and potential of Kenya's next generation of AI leaders. Congratulations to our outstanding teams JHUB Techies from JHUB Africa and VAB (Virtual Assistant for the Blind) whose solutions stood out for their ingenuity and social relevance. As we celebrate this milestone, we look forward to seeing you at future Botathons or joining us through the THiNK Developer Program to continue your journey in AI innovation. For more information concerning botathons visit www.cop.think.ke.

Our AI and Machine Learning Engineer, Aisha, guiding students through Retrieval-Augmented Generation (RAG) concepts

Conrad, our Community Engagement and Partnership Lead, guiding students through the Botathon

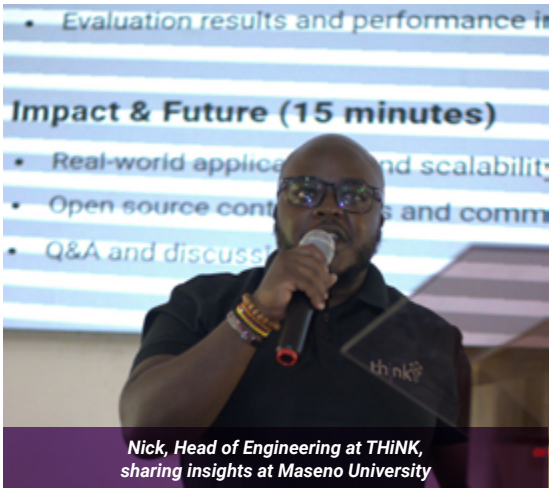
Head of Engineering at THiNK, guiding students through advanced Retrieval-Augmented Generation (RAG) concepts

Indaba X Kenya: Maseno University Botathon #10

On June 18, 2025, THiNK participated in IndabaX Kenya 2025 at Maseno University, where over 300 AI enthusiasts gathered to explore the future of AI and NLP in Africa. Representing THiNK, Aisha Mohamed Nur presented her research on benchmarking five AI agents ReAct, OpenAI, LLM Compiler, Chain-of-Abstraction, and LATS by evaluating their performance, cost, and efficiency in document retrieval tasks using a real-world risk assessment report. The ReAct agent stood out as

the most balanced performer. Aisha also led interactive demos at THiNK's booth, engaging students, developers, and linguists, and received insightful feedback on expanding benchmarks to include Kiswahili and other local languages. This is the first of four NLP Community Meetups under Work Package 3, aimed at fostering community building, facilitating knowledge transfer, and documenting multilingual best practices. These efforts directly support our ongoing prototype development and our commitment to creating inclusive AI for low-resource settings. To access the research paper, please follow the provided link: www.cop.think.ke/research.

Indaba X Kenya 2025 and THiNK banners



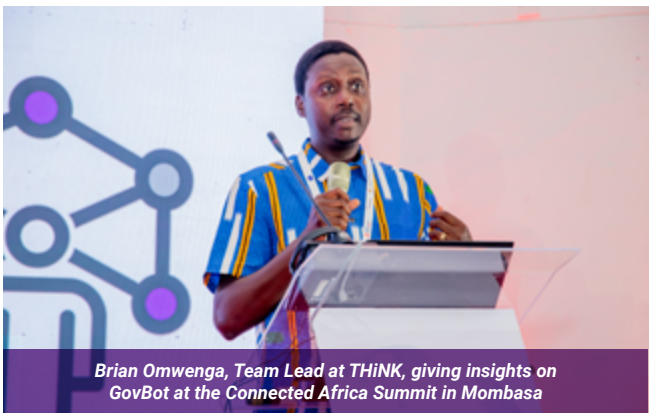
Nick, Head of Engineering at THiNK, sharing insights at Maseno University

Launch of GovBot AI Platform

At a pivotal sideline event during the Connected Africa Summit 2025 in Mombasa, the Tech Innovators Network (THiNK) launched GovBot, an innovative AI-driven platform that is set to revolutionize how citizens access essential government services.

Presented by Nick Mumero, GovBot addresses key pain points faced by citizens, such as fragmented information, long call center wait times, and a lack of 24/7 support. GovBot was designed using a Digital Public Infrastructure (DPI) approach, as exemplified by the GovStack initiative. It is integrated with eCitizen through REST APIs and standard authentication protocols, enabling seamless support across multiple agencies.

THiNK Head of Engineering Nick presenting GovBot at the Connected Africa Summit, Mombasa.


Brian Omwenga, Team Lead at THiNK, giving insights on GovBot at the Connected Africa Summit in Mombasa

The platform has already been implemented for four major government entities: the Kenya Film Commission, the Kenya Film Classification Board, the Office of the Data Protection Commissioner, and the Business Registration Service. It is currently undergoing beta testing and is sandboxed within

our THiNKiT bot of bots platform.. Head over to THiNKiT and give it a test (www.web.think.ke). With capabilities like automated web crawling for real-time updates, multi-turn conversations, and role-based access control, GovBot promises an 80% reduction in basic information calls and a 95% improvement in response time. As African governments embrace digital transformation, GovBot sets a new benchmark for smart, scalable, and citizen-centric service delivery. For more information, visit https://govstack.gitbook.io/use-cases/use-cases/ai-chatbot-discoverability-government-services#steps.

Connected Africa Summit participants

RESEARCH SPOTLIGHT
Towards Smarter AI Deployments

This study presents a comparative performance analysis of various AI agents, evaluating them based on execution time, memory consumption, token usage, and estimated cost. Using a single PDF document, we tested both simple and complex queries across multiple agents, including the OpenAI Agent, ReAct Agent, LLM Compiler Agent, and LLM Chain-of-Abstraction Agent. Key findings reveal that the OpenAI Agent excels in execution speed but has the highest memory consumption, while the ReAct Agent is the most cost-effective due to minimal token usage. The LLM Chain-of-Abstraction Agent generates the most detailed responses but is the slowest and most expensive. Meanwhile, the LLM Compiler Agent offers a balance between speed, cost, and quality. These insights highlight the trade-offs between speed, efficiency, and cost when selecting an AI agent, providing valuable guidance for optimizing AI-driven applications. Head over to the research section of our CoP to get more information. To access the research paper, please visit: https://cop.think.ke/research.

Results Analysis for a simple query

Simple Query: *"What does the document talk about?"*

Agent	Time (s)	Memory (MB)	Tokens	Cost ($)
ReAct	3.42	0.01	71	0.00014
OpenAI	3.35	0.00	188	0.00038
Compiler	5.67	0.00	390	0.00078
Abstraction	7.96	0.00	357	0.00071
LATS	12.23	0.00	615	0.00123

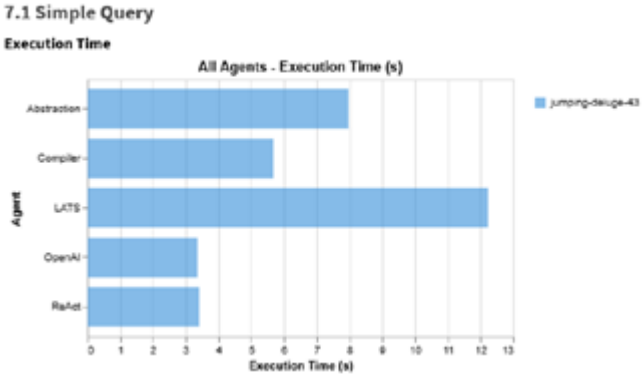
Results Analysis for a simple query

Complex Query: *"Summarize the top 5 risks and mitigation strategies."*

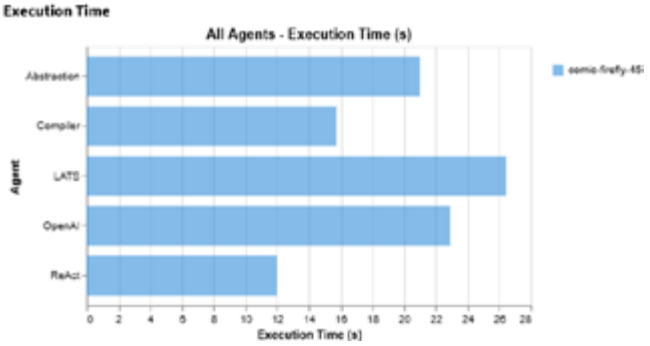
Agent	Time (s)	Memory (MB)	Tokens	Cost ($)
ReAct	5.97	0.02	148	0.00030
OpenAI	21.28	0.00	765	0.00153
Compiler	12.52	0.00	616	0.00123
Abstraction	12.99	0.00	524	0.00105
LATS	18.83	0.00	1113	0.00223

Aggregated Result based analysis based on Performance Metrics

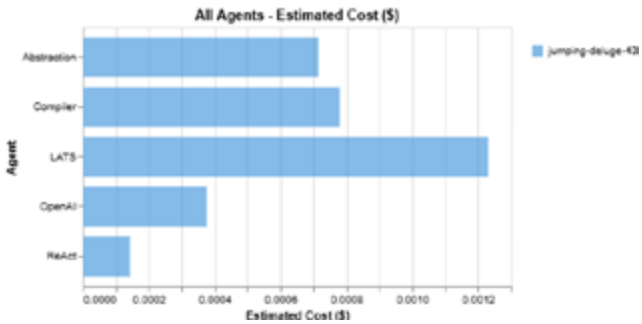
Estimate Cost Comparison: Complex Query



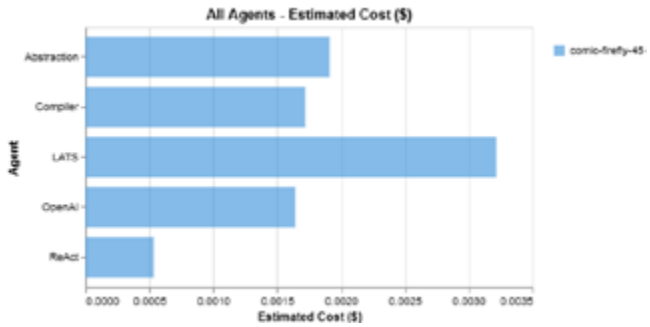
Estimate Cost Comparison : Simple Query



Execution time: Complex Query



Execution time: Simple



Final Takeaways

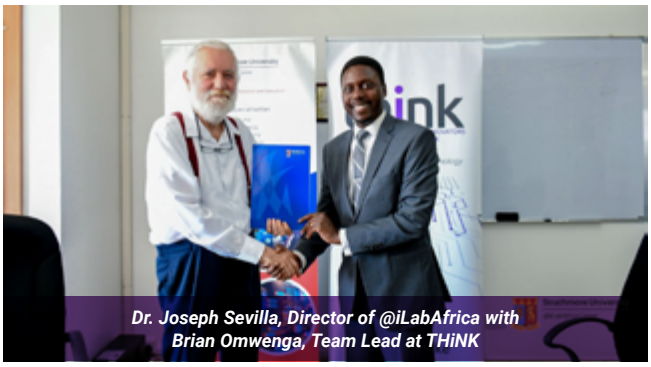
Use Case	Recommended Agent
Fast, cheap answers	ReAct Agent
Technical summaries	Compiler Agent
Multi-layer analysis	Abstraction Agent
Deep decomposition	LATS Agent (high cost)
Simple raw outputs	OpenAI Agent (only for speed)

GALLERY

Prof. Ng'ang'a Zipporah Waithera (Ph.D), Principal of Mama Ngina University, and Brian Omwenga, Team Lead at THiNK, signing an MoU

Community Engagement and Partnership Lead at THiNK with participants at the Meta Youth Summit

AI/ML Engineer at THiNK giving insights at IndabaX Kenya, Maseno University



Dr. Joseph Sevilla, Director of @iLabAfrica with Brian Omwenga, Team Lead at THiNK

A participant of Botathon 10 receiving a gift pack

Participants of Botathon 10 at Mama Ngina University

PARTNERS IN THIS ISSUE

KEBS · bsi · Strathmore University @iLabAfrica Centre · Meta · Mama Ngina University College