Innovating Healthcare for the Future: The Role and Prospects of Al

Inchul Hwang, EVP, Samsung Electronics 26th Feb

AI Trend



How to generate the Title with Gen Al

Innovating Healthcare for the Future: The Role and Prospects of AI

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	I'm preparing a seminal content and role fo Writ		••• ()	3. "Innovatin	g Healthcare for the Future: The Third one is th	
	lealthcare through Artificial A Comprehensive Overview		1	Future: The that conveys	e! "Innovating Healthcare for the Role of AI" is a compelling title the importance of AI in driving the healthcare industry.	
I want Future and Innovation to be in the title				How about "Innovating Healthcare for the Future: The Role and Prospects of AI" as the title		
Certainly! Here are some revised options that incorporate "Future" and "Innovation" in the title: 1. "Shaping the Future of Healthcare: Innovations in AI" 2. "Revolutionizing the Future of Medicine with AI" 3. "Innovating Healthcare for the Future: The Role of AI"				suggests that discuss the f healthcare a	n of "prospects" in the title at the seminar will also future direction of AI in nd the opportunities and hat lie ahead	

What is AI?

Intelligence demonstrated by machines

Perception



Machines replicate human mind

Planning / Reasoning / Generate





What can the recent AI do?

Solving Problems which Human-generated S/W cannot solve



How has AI been developed?



Generative AI

AI capable of generating text, images or other media



AI model Training Process



Al also innovates user experience in devices

Optimized user experience considering personal preference and current context



Galaxy AI: Translate



Translate



Galaxy AI: Summary, Style





Summary

Style



Galaxy AI: Image



Image



Enabler(1/2) Samsung Gen AI (Gauss)

Samsung's Generative model





- Specialized in Generating, Editing and Converting images
- Handle many images generated in Samsung devices



- Optimized code generation for Samsung product software
- Natural language is converted into code

Enabler(2/2) On Device Al



Enabler(2/2) On Device AI (NPU)



NPU Now



- IBM ASCI white supercom
- 12 TFLOPS operation
- nuclear weapons stockpile
- astronomy, energy, human genome science and climate change research.



- Samsung Galaxy S24 Ultra
- > 45 TOPS operation
- Live translate, Generative Edit

Gen Al can pass Medical licensing



Healthcare Use Cases



Healthcare with Samsung: Samsung Health

Seamless cross-device experience within Galaxy ecosystem



Samsung's Intelligent Health Platform

Al to secure the performance of algorithms that measure health status



Samsung Healthcare Devices

Combining leading technology to improve the quality of people's lives



Samsung Healthcare Devices Al



On Device Chest CAD



Auto collimation



Bone suppression







Live BreastAssist[™]

NerveTrack[™]

Remarks

Al in Healthcare has potential But faces challenges such as accuracy, safety, ethics, and collaboration



Thank you

Inchul Hwang