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NHGEducation

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NHG EDUCATION

Vibing with Innovation: How NHG Health Educators Are Using AI to Solve Teaching Challenges

Eager to explore how AI (artificial intelligence) can help bring teaching ideas to life, 18 healthcare educators alongside six facilitators stepped into the world of app prototyping and AI at the inaugural Vibe Coding Workshop organised by the AINE (AI-eNabled Education) team under Group Clinical Education (GCE) on 14 August 2025.

“

We noticed many educators had brilliant ideas but lacked the technical expertise or resources to turn them into reality... vibe coding bridges that gap. It's a stepping stone from idea to innovation.”

- Asst Prof Chow Minyang



Why Vibe Coding?

The design for the workshop stems from AINE's broader mission: to support healthcare educators not only as consumers of technology but also as creators, shared Assistant Professor Chow Minyang, Director of AINE, who helmed the workshop.

“We noticed many educators had brilliant ideas but lacked the technical expertise or resources to turn them into reality,” said Asst Prof Chow, who is also a Consultant (General Medicine) at Tan Tock Seng Hospital. “Vibe coding bridges that gap. It's a stepping stone from idea to innovation.”

He emphasised that the goal is not to replace developers, but to empower educators to take the first step — prototyping ideas that can later be scaled.

Despite the name, vibe coding does not require traditional programming knowledge, said Mr Lim Pao Hup, Senior Assistant Manager, GCE, who is one of the workshop facilitators.

“The workshop is intentionally designed for healthcare educators without a technical background,” he said. “AI handles most of the technical heavy lifting — our participants just need to bring their ideas.”

What is Vibe Coding?

“Vibe coding is a new approach that empowers educators to build (prototype) simple applications by ‘vibing’ ideas with AI tools, instead of writing code from scratch,” Mr Lim explained.”

“This coding method strips away the traditional barriers to app development by pairing educators with AI-powered tools that understand natural language prompts, allowing for healthcare educators to translate teaching challenges into working prototypes quickly.”

Mr Lim likened the process as having a conversation: educators describe a challenge or idea, and the AI suggests how to structure and code the solution. And he believes that this opens up new possibilities for educators who may otherwise feel left out of digital innovation.

Tools That Empower Educators

The workshop introduced participants to two primary platforms:

- Replit – A collaborative, browser-based development platform with built-in AI support, ideal for rapid prototyping. Participants used it to build and deploy interactive web apps, including games and translation tools.
- Claude Pro – An AI assistant that helps refine prompt engineering. Educators used it to describe the functionality they envisioned, and Claude Pro turned those prompts into functional code snippets or full applications.

These tools make it possible for participants to design and test educational applications with zero setup or technical complexity.

"The beauty of the tools is that they meet you where you are. You don't need to know how to code to make something meaningful," shared a participant.

Prototypes with Real-World Potential

During the session, participants developed several working prototypes tailored to healthcare education:

- A 'Jargon Buster' app that helps users convert complex medical language into plain, patient-friendly English.
- A 'Measured Words' communication tool that rephrases emotionally charged messages into calm, professional dialogue.
- A medical translation app that interprets voice inputs from clinicians into other languages for patient interactions.

Each project demonstrated how a teaching challenge could evolve into a usable tool in just a few hours.

"Seeing my idea come to life in a prototype — it was thrilling. It made me feel like an innovator," shared a participant.

A Launchpad for Future Innovation

By the end of the session, the participants walked away with functional prototypes, newfound confidence in using AI tools, and a clear understanding of how to continue developing their ideas.

For many, this was more than just a workshop — it was a launchpad for transforming how healthcare education could evolve in the AI era.

"This was eye-opening. I came in intimidated by the word 'coding' but left feeling like a creator," said one participant.

"Our goal is to introduce simple-to-use tools such as vibe coding, that would enable our educators to relook the way they approach curriculum design," said Asst Prof Chow.



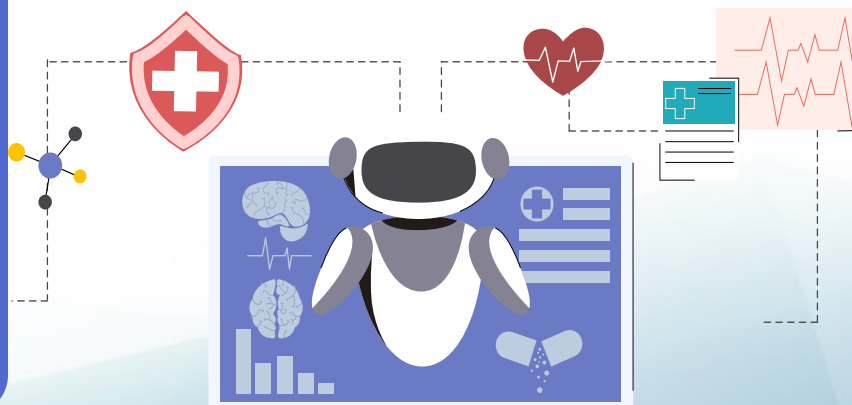
“

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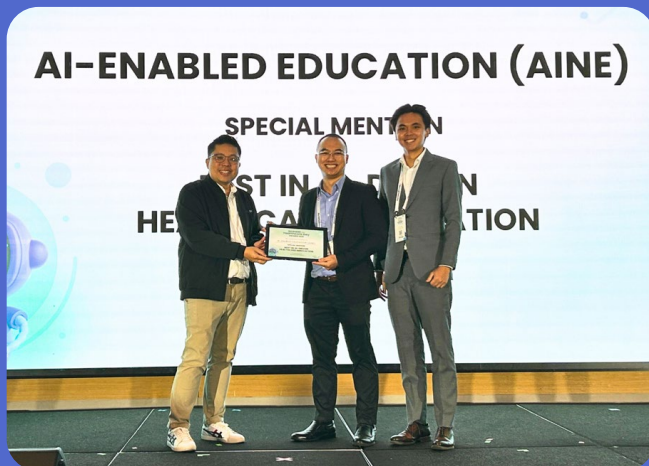
- Mr Lim Pao Hup (standing)



The AINE Team (seated, front row) with the participants from the inaugural run.



Special Mention Award for AINE (AI-eNabled Education) at GovInsider's Healthcare Day 2025



AINE team receiving the Special Mention Award at GovInsider Healthcare Day 2025

The AINE (AI-eNabled Education) team from Group Clinical Education received a Special Mention award in the category Best in AI-Driven Healthcare Innovation at the GovInsider Healthcare Day on 16 September 2025. This recognition is especially notable as AINE was the only education-focused initiative amongst the other winning projects.

The three-member team, made up of Assistant Professor Chow Minyang, Consultant (General Medicine), Tan Tock Seng Hospital; Dr Mucheli Sharavan Sadasiv, Senior Consultant (Infectious Diseases), National Centre for Infectious Diseases; and Mr Lim Pao Hup, Senior Assistant Manager, Group Clinical Education, was recognised for their pioneering efforts in introducing artificial intelligence (AI) to NHG Health's clinical educators and integrating it into their training curriculum. To date, the initiative has piloted over 10 AI-tools, enabling educators to be better prepared for teaching in the digital age.

"I am appreciative of the recognition from GovInsider and affirmation that ours is the only education piece that garnered an award. I am thankful to all who have contributed to our efforts," said Asst Prof Chow, who is also director of AINE. "AI in Education has its challenges and opportunities, and we want to ensure these opportunities are fully harnessed, while ensuring the risks are effectively addressed."

"This award affirms NHG Health's commitment to equipping its educators and learners with innovative tools and approaches, ensuring that clinical education remains relevant, adaptive, and future-ready," said Mr Lim.

Looking ahead, the AINE team plans to:

- Collaborate with our institutions and partners in both research and applied projects to tackle complex challenges in clinical education, such as overcoming bias and managing uncertainty.
- Roll out selected AI tools for use by both educators and learners, ensuring practical benefits are felt at the ground level.
- Continue skilling NHG Health's educators by building fluency in AI, and supporting them to become app-creators capable of developing bespoke tools to meet their own educational needs.
- Position NHG Health internationally, together with NTU's Lee Kong Chian's School of Medicine, as a leader in reimagining clinical education in the era of AI.



(From left) AINE team members Mr Lim Pao Hup, Dr Mucheli Mucheli Sharavan Sadasiv, and Asst Prof Chow Minyang (seated)



Some 47 NHG Health participants attended the EduRounds session

NHG College Driving Educator Growth at NHG Health

Today, driving educator growth has become a strategic imperative for healthcare. Dr Tracy Tan, Senior Consultant (Renal Medicine), Tan Tock Seng Hospital (TTSH), and Director of the Institute of Education and Faculty Development at NHG College, is spearheading this critical mission across NHG Health. Her new role centres on systematically enhancing the teaching capabilities of healthcare professionals throughout the organisation, ensuring that today's clinical educators are equipped with the competencies needed to nurture tomorrow's healthcare workforce, and drive continuous improvement in patient care.

Speaking at a recent Group Clinical Education's (GCE) EduRounds (Education Rounds) session on 27 August 2025, Dr Tan shared how NHG College's strategic faculty development initiatives aim to transform educational practices across NHG Health.

She shared that NHG College's centralised approach ensures consistency and coordinated growth opportunities for NHG Health clinical educators. The competency framework that has been developed encompasses three major domains – education, education administration, and education scholarship, that will drive educator development, she elaborated.

Innovative Tools Driving Personalised Growth Across All Healthcare Disciplines

One such initiative is the introduction of the Learning Needs Analysis (LNA) tool. Building on the LNA tool in MS Excel format developed years ago by Associate Professor Faith Chia and Dr Sarah Lu (former DIO and ADIO respectively), Drs James Kwan and Ng Wei Xiang reviewed the competencies and launched the online LNA tool as a comprehensive self-evaluation instrument that maps individual educator competencies against NHG Health's faculty development framework. The tool systematically assesses faculty members across multiple teaching roles— from facilitator and role model to planner and assessor – enabling educators to identify specific areas where their skills may need enhancement. What sets the LNA apart is its ability to generate personalised development pathways, transforming abstract competency frameworks into actionable learning plans tailored to each educator's unique professional context and career stage.

"This tool aims to identify gaps in your own competency," explained Dr Tan, who is also Associate Designated Institutional Official (TTSH), NHG Residency. "After completing a questionnaire, you'll get a hand line report

specific to you, and there will be a list of recommended courses to address for learning needs."

Since its launch in July 2024, the LNA has demonstrated its effectiveness in driving targeted educator growth, with 58 per cent of users receiving personalised course recommendations, said Dr Tan, and shared that the data identified that support is most needed in the areas of planning and resource development, and this has enabled her and her team in NHG College to focus their growth initiatives strategically.

While the LNA was initially designed for medical residency faculty, Dr Tan shared that the tool has since been piloted to other professional groups such as allied health, nursing, and pharmacy.

An Active "North Star" for Continuous Growth

In her closing remarks, Dr Tan used a metaphor to illustrate the relationship between institutional support and educator growth: "Like the North Star is our guiding light, you, the faculty, are the guiding light for NHG College."

She emphasised that sustainable educator growth requires active faculty engagement, and urged for the faculty to provide feedback regarding where those needs are.

"Education is changing very rapidly, so if we don't know where the needs are, we will not be able to develop our curriculum to meet those needs," said Dr Tan. "And we really are going to fall behind."



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- Dr Tracy Tan on the importance of Educator Growth in NHG Health





Teaching Excellence and Strategic Innovation: NHG Health's Teachers' Day 2025 Celebration

Nearly 300 healthcare educators across NHG Health were recognised for their outstanding contributions to clinical education at this year's Teachers' Day celebration.

Speaking at the celebrations on 16 September 2025, Professor Chin Jing Jih, Deputy Group Chief Executive Officer (Clinical & Academic Development) at NHG Health, congratulated the 289 Teaching Excellence Award recipients, whilst outlining the organisation's strategic vision for clinical education in NHG Health.

"Never underestimate the profound impact of your role as an educator," Prof Chin told the recipients and supporters in the auditorium. "Your work is fundamental to ensuring that our patients receive the highest quality of care, as you shape the minds and skills of those who will serve them."

Building Tomorrow's Healthcare Workforce

He highlighted Group Clinical Education's (GCE) three strategic priorities for clinical education (CE): fostering a learning healthcare community, building future-ready healthcare professionals (HCPs), and leading healthcare transformation through education.

Among the key initiatives launched by GCE this year include the inaugural Pre-University Student Attachment Programme, which provided 45 students from 19 junior colleges and polytechnics with two weeks of job shadowing experience across various NHG Health



institutions; and SEED (Supporting Exploration among Early-career Doctors), a mentorship programme that attracted over 90 mentors was also piloted early this year, which has since expanded to support nearly 40 junior doctors.

"A learning healthcare community cannot develop in isolation. It is important that our juniors are nurtured and guided early in their career," Prof Chin emphasised.

AI-Driven Innovation in Medical Education

A significant portion of Prof Chin's address focused on NHG Health's pioneering work in the realm of artificial intelligence (AI) for CE. In a time when technology is progressively permeating into daily life and healthcare, GCE has developed the HuMEAIN framework,

combining humanistic medicine (HuME) with AI-enabled education (AINE) to create technologically-adept yet compassionate HCPs.

"Striking the crucial balance between advancing technological capabilities and maintaining the human touch in healthcare delivery is vital for navigating this AI-driven world," Prof Chin noted.

He shared that the AINE initiative has seen much success, with over 240 NHG Health colleagues participating in onboarding webinars; and the development of 15 AI applications, including MCQ writers, OSCE generators, clinical learning tools, etc., using a mere \$100 in OpenAI credits.



This year's Education Leader Award recipients with NHG Health GCEO, Prof Joe Sim (third from right)

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**Never underestimate
the profound impact
of your role as an
educator.”**

- Prof Chin Jing Jih



Award recipients and supporters were treated to a slew of fun-filled activities

Prof Chin also took the opportunity to share two pieces of news which highlighted the AINE team's efforts.

- The team secured approximately \$113,000 from NHG Health's AI Implementation fund to develop an AI-powered communication simulator. This tool aims to transform critical communication skills training, whilst freeing up valuable faculty time.
- The team received a special mention for their efforts in the Best in AI-Driven Healthcare Innovation category at GovInsider's Healthcare Day, the same afternoon as the Teachers' Day celebration.

Prof Chin concluded by acknowledging the collective impact of NHG Health's 4,000 clinicians involved in training and education, and underscored NHG Health's commitment to educational excellence whilst embracing technological advancement to prepare the next generation of HCPs for an evolving medical landscape.

"You represent the very best of what it means to be an educator in NHG Health — combining clinical expertise with educational innovation to ensure our learners are prepared for the challenges and opportunities that lie ahead," he said.

For more photos from the event click ['here'](#)

Meet this year's [awardees](#)

Follow the link to view the full awardees' [list](#)

Outstanding Resident Award



This year's Outstanding Resident Award recipients with Prof Chin Jing Jih (first row, third from left)

NHG Health Celebrates 101 Graduates and 80 Senior Resident Promotions at Annual Recognition Dinner

101 medical residents finally crossed the finish line of their residency programmes and celebrated this milestone, on 29 August 2025 at the Residency Recognition Dinner. The evening also saw 80 junior doctors promoted to senior residents, whilst 24 outstanding residents received special recognition awards.

Professor Chin Jing Jih, Deputy Group Chief Executive Officer (Clinical & Academic Development) at NHG Health, who delivered the keynote address, spoke candidly about the demanding nature of medical practice and the challenges ahead.

"We are in a profession where the viruses, bacteria, inflammatory agents, multiplying cancer cells do not have public holidays or weekends," he reminded the audience, emphasising that resilience remains crucial for patient care, and longevity in this profession.

Recognising that the road ahead is long and arduous, Prof Chin offered practical advice: "Go back to your room, and dig out that personal statement that you submitted many years ago... (when) applying for medical school. Read it. You may be embarrassed... but I think it's important for you to remind yourself why you are here in the first place."



Asst Prof Llewellyn Lee giving his address

With the future of healthcare increasingly transformed by AI, robotics, and other technological advancements, Prof Chin reminded that technology should be used to improve efficiency and accuracy, but not to replace the human touch.

"We need to use it, in fact, to enhance the human touch," he said. "And we (as doctors) will decide how technology will be used, and not just for efficiency, but for compassion... whilst remaining guardians of our values."



A night of fun to celebrate the end of an incredible journey, and the start of new exciting chapters.

"When in doubt, return to the patient... The patient's dignity and well-being must always come first," advised Prof Chin.

He concluded his address by emphasising the continuity of medical excellence: "You are not just a graduate from a programme... but you are the torchbearers of our profession that is noble, demanding, and deeply human." Prof Chin then reminded the graduates and newly-promoted senior residents that they are both beneficiaries of mentorship and now responsible for continuing this tradition.

"The responsibility of continuing this tradition is in the hands of this new generation of specialists and family physicians, whether through teaching, guiding or simply listening, you can contribute to shape the next level of this journey," he said.

Echoing the importance of humility and perspective, Assistant Professor Llewellyn Lee, Designated Institutional Official of NHG Residency, offered words of wisdom: "Always try to stay humble... remember no matter how good you think you are, you know there's always someone who is better, smarter," he advised.

"And be grateful for what you have, because no matter how bad you think your day is or your week has been, there's someone who had it much tougher than yourself."

"Once again, congratulations on coming this far. It's still the start of your journey, but trust me, it's going to be a very very rewarding one," Asst Prof Lee concluded.

Catch the highlights of the Resident Recognition Dinner in our Instagram [Reel!](#)



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Dig out that personal statement that you submitted many years ago when you applied for medical school. Read it. You may be embarrassed... but I think it's important for you to remind yourself why you are here in the first place."

- Prof Chin Jing Jih