



Mastering Generative AI: From Data to Decisions

13-19 December 2026 (on-campus classes from Dec 14-18)

Built for High School Students (Grades 9–12)

Limited seats - Don't miss out

A photograph of the Singapore skyline at night, featuring the Marina Bay Sands hotel with its iconic SkyPark and the Esplanade - Theatres on the Bay. The buildings are illuminated, and their lights reflect on the water in the foreground.

PROGRAMME OVERVIEW

The Comet Winter Programme is a 7-day experiential camp at Nanyang Technological University - immersing students in the concepts of Generative AI. From understanding how large language models work to building AI-powered solutions and pitching them on Group Presentation Day, students leave with a real project, an NTU Singapore Certificate of Completion, and skills that most of their peers simply won't have.

With the academic component held on the NTU Singapore campus and led by world-class faculty, this is the kind of experience that doesn't happen in school.

#12 In the World

QS World University Rankings 2027

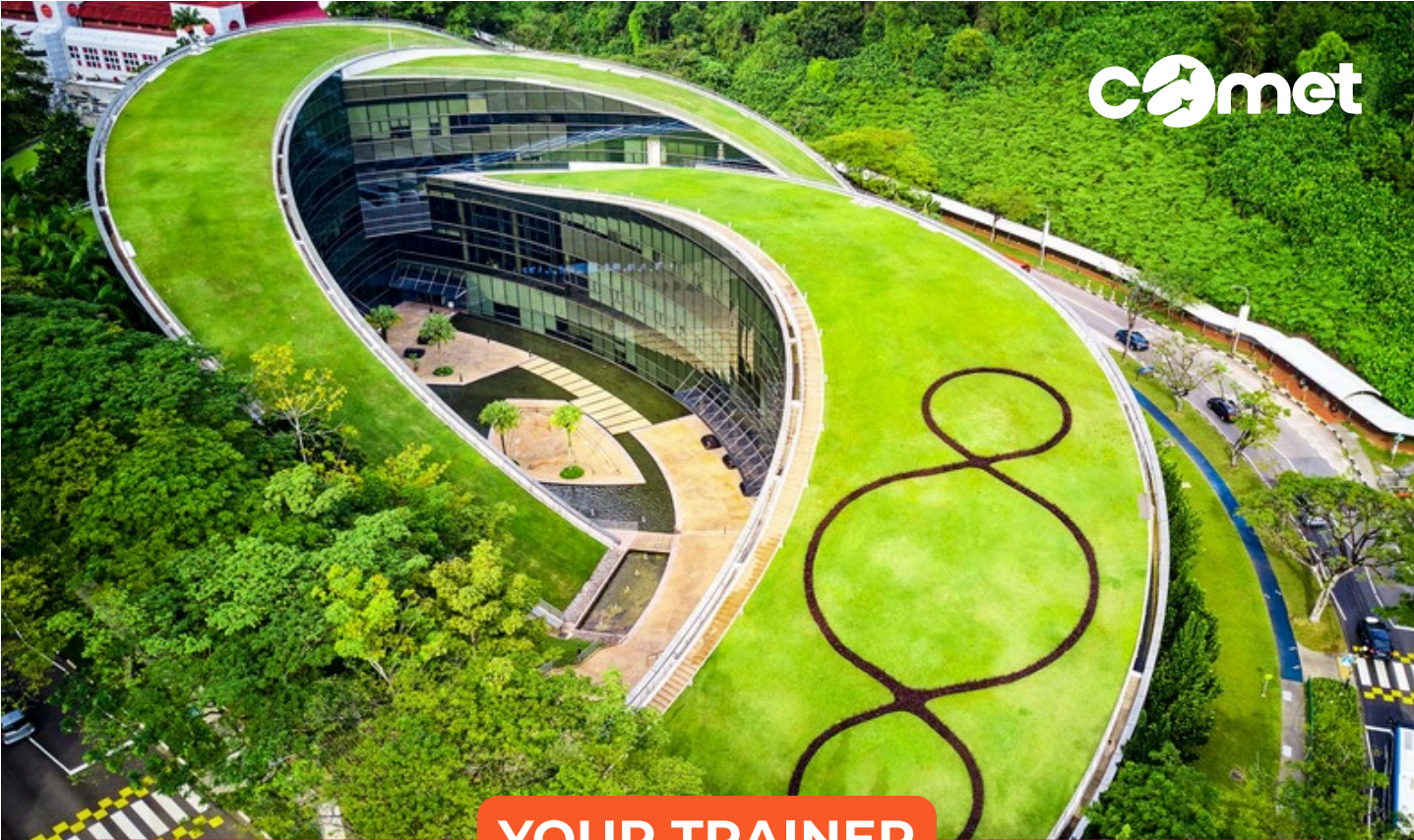
**#2 In Singapore
#3 in Asia**

Top innovation hub on earth

#4 AI & Data Science

QS World University Rankings by
Subject 2026

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YOUR TRAINER

Dr Shen brings over two decades of research and teaching experience at the intersection of AI, computing, and data science. A Senior Member of both IEEE and ACM, he has published over 300 research papers and seen more than 20 of his projects successfully commercialised a rare combination of academic rigour and real-world impact.

His teaching approach is direct and applied: students understand not just how Generative AI works, but why it matters and what they can do with it.



Dr. Zhiqi Shen

College of Computing and Data Science, NTU Singapore

Credentials at a Glance

- BSc - Peking University
- Master's - Beijing University of Technology
- PhD - Nanyang Technological University
- Senior Member, IEEE and ACM
- 300+ published research papers
- 20+ commercialised projects

WORKSHOP OUTLINE

5 sessions · 3 hours each · 15 hours total · Lecture-based with team project

Session 01 - Foundations of Generative AI | 3 Hours

An introduction to the history, architecture, and capabilities of Generative AI. Students explore how modern AI systems are built, trained, and applied - laying the groundwork for everything that follows in the programme.

Session 02 - Data & Prompt Engineering | 3 Hours

How does the quality of data and the design of prompts shape AI performance? Students learn to engineer prompts with precision, understanding how inputs influence outputs - a critical skill for anyone building with AI systems.

Session 03 - Text & Multimedia Generation | 3 Hours

From writing to images, audio to code - students explore how Generative AI produces content across media formats. Hands-on exercises bring the theory to life, with real tools and real outputs.

Session 04 - Decision-Making with AI | 3 Hours

Students examine how AI supports complex, real-world decisions - through recommendation systems, intelligent agents, and AI-assisted analysis. This session connects technical capability directly to business and societal application.

Session 05 - Group Presentation Day | 3 Hours

The grand finale. Student teams present their AI projects - judged on a real rubric. A synthesis of everything learned during the week, with a forward-looking discussion on where AI and entrepreneurship are heading next.

All sessions are delivered on the NTU Singapore campus. Team-based projects run as ongoing homework throughout the week and are presented on Group Presentation Day.

A CREDENTIAL THAT OPENS CONVERSATIONS

Every student who completes the programme receives a Certificate of Completion from the Nanyang Technological University (NTU Singapore).

Awarded on achievement of overall attendance of 75% or more.

It's a profile-building credential - evidence of initiative, global exposure, and future-ready skills. It strengthens CVs, and comes paired with a real project portfolio and Group Presentation Day experience that students can speak to in interviews.

NTU reserves the final decision on the award of any certificate or letter.

WHAT'S INCLUDED

**One programme. Everything taken care of.
From the moment you land to the closing ceremony,
every detail is handled.**

- ✓ Airport pickup and drop-off
- ✓ 7 Days 6 Nights hotel accommodation (twin-share) [property TBC]
- ✓ All daily meals across the week
- ✓ All five faculty-led Generative AI sessions at NTU Singapore (15 hours)
- ✓ Campus immersion, learning journeys & company visits
- ✓ All learning materials and resources
- ✓ Cultural exploration and team activities throughout the week
- ✓ Local transport for all programme activities
- ✓ 24/7 supervision by Comet camp managers
- ✓ Coaching and mentorship support
- ✓ Welcome kit
- ✓ Visa Assistance
- ✓ NTU Certificate of Completion + closing ceremony
- ✓ Lifetime access — Comet Insider Access student community
- ✓ Chance to become a Comet Ambassador

Not included:

- ✗ International flights
- ✗ Travel insurance
- ✗ Data roaming charges
- ✗ Personal expenses

*The non-academic component of the winter programme is run by Comet.
The academic component is delivered by: NTU Singapore*

A night-time photograph of the Singapore skyline, featuring the illuminated Marina Bay Sands hotel and the Esplanade - Theatres on the Bay in the foreground, with other city lights visible in the background.

DELIVERY & DURATION

Format

The Comet Winter Programme is a fully immersive camp held partially on the NTU Singapore campus. Students live, learn, and explore Singapore together over 7 days - combining structured academic sessions with industry exposure and cultural activities. Language of instruction: English.

Academic Structure

5 sessions × 3 hours = 15 hours of instruction with NTU Singapore faculty
Teaching methodology: Lecture-based learning + team-based project (ongoing throughout the week, presented on Group Presentation Day)

Venue

Nanyang Technological University (NTU Singapore) - all academic sessions held on campus, delivered by the university. Learning journeys and cultural activities take place across Singapore, delivered by Comet.

When

December 13-19, 2026. with the academic component delivered on NTU Singapore campus from December 14-18, 2026.

Who is it for

Students in Grades 9-11 (ages 15-18) from anywhere in the world. No prior AI or coding experience required - curiosity and ambition are the only prerequisites.

The non-academic component of the winter programme is run by Comet.

INDUSTRIAL LEARNING JOURNEYS

Linkedin and Hyundai Motor Group

Industry Visit 1 - LinkedIn APAC HQ

Get a chance to visit Microsoft-owned LinkedIn's APAC Headquarters located in Singapore. Experience what it takes to build one of the most popular social networking platforms in the world. Prepare yourself for the corporate world early on.

Industry Visit 2 - Hyundai AI Center

A unique visit to the Hyundai Motor Group Innovation Center Singapore (HMGICS) where you can experience how artificial intelligence, robotics, and digital twins automate 70% of production and logistics processes.

A photograph of the Supertrees at Gardens by the Bay in Singapore. The trees have colorful, lattice-like canopies in shades of red, orange, and green. A wooden walkway with a yellow railing runs across the middle of the trees. In the background, the Singapore skyline and the Esplanade - Theatres on the Bay are visible under a blue sky with white clouds.

ACCOMMODATION

TBC - Hotel accommodation in the heart of the city

Twin-sharing (separate room subject to fees) rooms at a conveniently located hotel in Singapore. Daily transfers to and from NTU Singapore included.

The non-academic component of the winter programme is run by Comet.



GET IN TOUCH



Ready to secure your spot?

Speak to your school counsellor or reach out to the Comet team directly.
Seats are limited and go fast on a first-come basis.

THE COMET COMMUNITIES

Comet Insider Access (Students)

An exclusive student-only WhatsApp community with early access to opportunities, curated experiences, and insider guidance, trusted by 1000+ students globally.



Comet Parent Network

An invite-only community for parents of Grades 9-12 Students who want foresight, clarity, and trusted information as their child prepares for what's ahead.



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