

This programme is delivered by:



School of Continuing
and Lifelong Education



National University of Singapore 2025 Winter Programme (On-Site)

新加坡国立大学 2025 年 寒假实地官方项目

University Overview 学校简介

Founded in 1905, the National University of Singapore (NUS) is the oldest higher education institution in Singapore. NUS has 17 colleges, faculties & schools across three campuses and overseas colleges in more than 15 cities around the world. With quality education, influential research and visionary enterprise, attracts more than 40,000 students from 100 countries and regions. In QS World Universities Rankings 2025, NUS ranked 8th in the world and 1st in the Asia-Pacific region.



新加坡国立大学（National University of Singapore）是一所亚洲首屈一指的世界级顶尖大学，成立于 1905 年，拥有超过百年的建校历史。新国立共设有 17 所学院横跨新加坡三大校区，并在全球超过 15 个城市设有海外学院。其完整的院校及专业体系，实力强大的研究机构，丰富多彩的社团，为来自 100 个国家与地区的 40,000 多名学生提供先进的教育资源及优良的校园生活体验。新加坡国立大学在工程、计算机科学、生命科学及生物医学、社会科学及自然科学等领域的研究享有世界盛名，2025 年 QS 世界排名第 8 名，亚洲排名第 1 名。

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Programme Overview 项目简介

The winter on-site programme offered by School of Continuing and Lifelong Education of National University of Singapore, led by top-tier faculty, offers a high-quality, hands-on learning experience. The course covers the most cutting-edge research content, including data science, machine learning, finance and business and other directions. It aims to help students cultivate their ability to think actively, and improve their comprehensive abilities in research exploration, academic innovation, and English language proficiency.

寒假实地项目由新加坡国立大学持续和终身教育学院提供高质量、实践性课程内容，涵盖当下最前沿的研究内容，包括数据科学、机器学习、计算机科学、国际经济与金融等方向。旨在帮助同学以提升自身知识储备，培养学生主动思考和团队协作能力，并且多方位提升学生科研探索，学术创新，英文应用等综合能力。

Programme Dates 项目拟定日期

A 7-day Programme includes 15hrs onsite academic courses.

Tentative Duration:

January 19th to January 25th, 2025

项目时长 7 天，包含一门 20 课时（45min/课时），15hrs 的线下学术课程。

项目时间（拟定）：

2025 年 1 月 19 日-1 月 25 日

Programme Highlights 项目亮点

- Explore cutting-edge research cases with professionals and experts;
- Heighten critical thinking and multitasking skills through interdisciplinary learning experiences;
- Immerse in an English-speaking environment to improve writing and oral skills;
- Enhance the ability to communicate, collaborate in groups, and present in public;
- Awarded a certificate of completion and an assessment report by NUS SCALE.

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- 与专业人士和专家一同探索前沿研究案例;
- 通过跨学科学习体验, 提高批判性思维和多任务处理技能;
- 沉浸的英语交流环境, 提高写作和口语技能;
- 增强沟通, 团队协作和公开演讲的能力;
- 获得新加坡国立大学持续和终身教育学院颁发的结业证书和成绩测评报告。

Programme Introduction 项目内容 (参考)

The programme is delivered by NUS SCALE and the syllabus is subject to final version.

以下课程由新加坡国立大学持续和终身教育学院提供, 课程大纲以最终版本为准。

Generative AI And Large Language Model (LLM): Unleashing Insights With CHATGPT **生成式人工智能与大型语言模型 (LLM): 通过 CHATGPT 激发思考**

Pre-requisites: Basic familiarity with programming concepts. An eagerness to learn and explore about AI, generative AI, Large Language Models, ChatGPT and critical thinking skills.

预备知识: 对编程概念有基本的了解。渴望学习和探索人工智能、生成式人工智能、大型语言模型、ChatGPT 以及批判性思维技能。

Intro of Academic Course 学术课程介绍

This course is designed to equip students with fundamental AI skills through an engaging and practical approach. It focuses on nurturing innovation, understanding core AI concepts, and exploring popular deep neural network forms tailored for non-technical students. Participants will learn about generative AI tools, their capabilities, applications, and limitations. The course also emphasizes harnessing AI with ChatGPT to enhance data analysis and derive insights from unstructured text. Additionally, participants will engage in group projects to understand project development processes and envision real-world applications of generative AI and large language models.

本课程旨在通过参与性和实践性的方式, 帮助学生掌握基础的人工智能技能。课程内容侧重于培养创新能力、理解核心人工智能概念, 并探索针对非技术学生设计的流行深度神经网络形式。学员将学习生成式人工智能工具及其能力、应用和局限性。此外, 课程还强调利用 ChatGPT 提升数据分析能力, 从非结构化文本中提取见解。学员还将参与小组项目, 以理解项目开发过程, 并设想生成式人工

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智能和大型语言模型在现实世界中的应用。

The course covers the following topics:

- A Brief Modern History of AI
- Demos with Generative AI and ChatGPT
- How AI “think” and “learn”
- Generative AI and ChatGPT
- Project Development with ChatGPT

本课程涵盖以下主题：

- 人工智能导论
- 生成式人工智能和 ChatGPT 的演示
- 人工智能如何 “思考” 和 “学习”
- 生成式人工智能与 ChatGPT
- 利用 ChatGPT 进行项目开发

Itinerary 行程安排 (Tentative)

DATE	ITINERARY
Day 1	抵达新加坡，办理入住手续 Arrive in Singapore and Check in
Day 2	上午：学术课程 1 Academic Lecture 1 (3hrs) 下午：自由活动 Free Time
Day 3	上午：学术课程 2 Academic Lecture 2 (3hrs) 下午：自由活动 Free Time
Day 4	上午：学术课程 3 Academic Lecture 3 (3hrs) 下午：完成学术作业&自由活动 Assignments & Free Time
Day 5	上午：学术课程 4 Academic Lecture 4 (3hrs) 下午：准备结业报告 Prepare and Rehearse Final Presentation
Day 6	上午：结业汇报 Final Presentation 下午：自由活动 Free Time
Day 7	返回中国 Go back to China

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Application Requirements 申请要求

Language Proficiency 语言要求

TOEFL 79+; IELTS 6.0+; CET-4 500+; CET-6 470+

语言成绩达到托福 79 分/雅思 6.0/大学英语四级 500 分/大学英语六级 470 分

Programme Fee 项目费用

15,800 元人民币/人，项目人数上限 40 人。

此费用包含：

- 学术课程及材料费用
- 教室费用
- 住宿费用
- 项目统一安排活动的交通费用
- 项目期间的境外旅行意外险

不包含：往返机票、接送机、个人交通费用、餐饮及其他费用。

Proposed Faculty Information 参考师资介绍

The programmes are taught by professional teachers designated by NUS SCALE, and teachers of previous courses are available for reference:

项目由 NUS SCALE 指定的教师授课，往期课程师资可参考：

FENG Mengling

Assistant Professor

Saw Swee Hock School of Public Health, National University of Singapore

Research Areas:

Casual Inference for Evidence-based Medicine

Generative Models for Medical Time-series Analysis

Teaching Areas:

Healthcare Data Analytics

Big Data Technologies for Healthcare Problems

Awards/Honours:

MIT Teaching & Learning Laboratory Kaufman Teaching Certificate

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Second runner-up of Best Student Paper Award, KDD Working Group, AMIA

Finalist of MIT 2013 Innovation in Health Care Conference Innovation Showcase

Programme Credentials 项目收获

✓ Letter of Acceptance 录取信

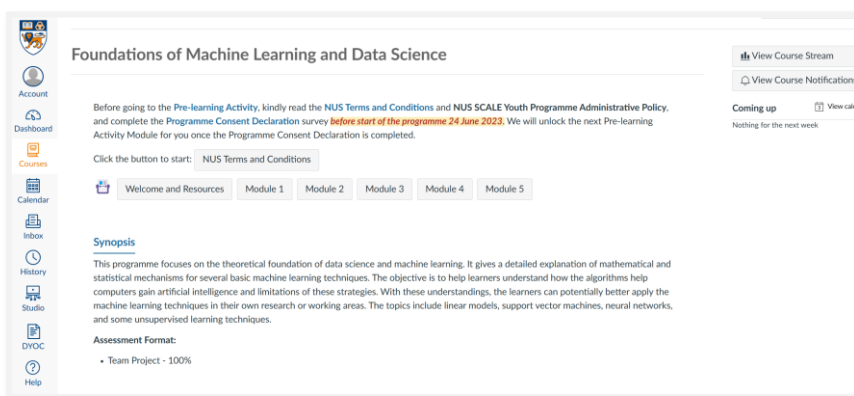
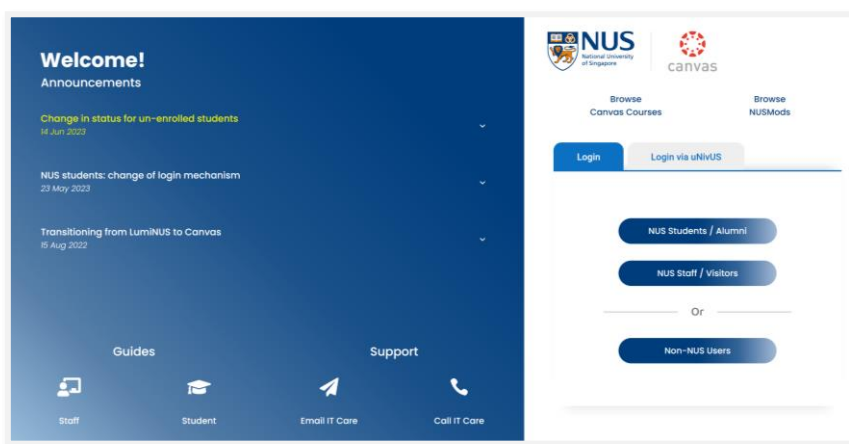
Participants who complete their registration of NUS SCALE Winter Programme will receive an official letter of acceptance.

参加 NUS SCALE 寒假课程，完成报名的同学将收到官方录取信。

✓ Official Learning Platform 官方学习平台

NUS SCALE will set up individual accounts for participants on the online learning platform, Canvas. Each student will use their Canvas account to receive school notifications, access study tasks assigned by lecturers, submit assignments, and download course materials.

NUS SCALE 将在其在线学习平台 Canvas 上为学员建立个人账户。每位学员都将使用自己的 Canvas 账户接收学校通知、访问讲师分配的学习任务、提交作业和下载课程资料。



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✓ **Assessment Reports 成绩测评报告**

Successful participants who complete all requirements of the programme including passing the assessment will receive an assessment report signed by the instructor.
成功完成课程所有要求并且通过测评的学员将获得由授课老师签字的成绩测评报告。

✓ **Commendation Letter 优秀学员证明**

Participants from the project team with the highest score for the group project will also receive a commendation letter.

小组课题成绩最高的小组，每位成员将收到一封优秀学员证明。

✓ **Certificate of Completion 项目结业证书**

Successful participants who complete all requirements of the programme including passing the assessment will receive a certificate of completion issued by NUS SCALE.
成功完成课程所有要求（包括通过评估）的学员将获得由 NUS SCALE 颁发的项目结业证书。

<https://scale.nus.edu.sg/home/youth/youth-programme-data-analytics-and-mathematical-statistics>

※ This sample certificate is for display only and cannot be downloaded or used for promotional purposes.
该证书样本仅作为展示，不可下载或宣传使用。

2025 Winter Programme Overview 寒假可开设项目课程概览（部分）

STEM and Future Technologies

人工智能与机器学习（计算机视觉）
人工智能与机器学习（深度学习）
生成式人工智能与大型语言模型（LLM）
数据分析与数据统计
工业 4.0 入门

Medicine and Psychology

人工智能与其在健康和护理中的应用
心理学与应用心理学
临床心理学

Art and Social Science

法律与公共政策
新闻与新媒体
从古代到现代——理解语言的变化
启发式教学能力学习

普通法商法原则
商事诉讼中的普通法

社会管理与人类学

Entrepreneurship

国际经济与金融
商业分析：行业竞争力

*最终开设项目及项目开设时间由新加坡国立大学持续和终身教育学院确定。