NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

NTU Academy for Professional and Continuing Education



(SCTP) ADVANCED PROFESSIONAL CERTIFICATE IN AI ENGINEERING

Develop cutting-edge software solutions powered by intelligent AI models and seamless retrieval pipelines, while crafting responsive frontends, building secure backends, and automating the entire deployment pipeline with advanced DevSecOps practices.

LEARN MORE

AI Engineer

tops the list of Singapore's fastest-growing jobs in 2026.

(Source : The Business Times, 2026)

Programme Mode

Full-time: 3 months

Part-time: 5 months

Programme Fee

Fee before funding: $31,174 (GST inclusive)

*The following are applicable:

- Up to 70% - 95% SWDA Funding
- SkillsFuture (Mid-Career) Credit top-up: $4,000
- SkillFuture Mid-Career Training Allowance

*Terms & Conditions apply

Venue

- NTU @ One North
- Virtual learning

Prerequisite

- Prior knowledge in programming fundamentals

askpace.sctp@ntu.edu.sg

https://www.ntu.edu.sg/pace

NTU PACE

Company Registration No: 200604393R

Programme Modules

AI & Software Engineering Fundamentals

Build strong foundations in coding, Git, agile workflows, databases, and core AI concepts to prepare for AI-driven engineering.

Frontend Web Development

Develop responsive, interactive interfaces using modern frameworks, integrating AI features of streaming outputs, prompts, and transparent AI interactions.

Backend Development: Server-side Programming

Implement scalable backend systems with APIs, databases, microservices and AI integrations, with reliability, observability, and structured engineering practices.

DevSecOps: Automating Integration & Deployment

Automate deployment with CI/CD pipelines, containerization, and DevSecOps practices, integrating security and microservices for scalable, trustworthy AI applications.

GenAI Deployment & Capstone

Leverage LLM APIs, RAG systems, and agentic workflows, culminating in a capstone project that delivers a production-ready AI solution.

Unlock Your Future Role

- AI Applications Engineer
- AI Solutions Engineer
- Front End Developer
- Mobile App Developer
- AI Engineer
- Back End Developer
- Java Developer
- Software Automation Engineer

Unsure if this programme is right for you?

Book a session with our in-house career consultants.

Are you ready to build the intelligence shaping tomorrow's world?