NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE | NTU Academy for Professional and Continuing Education



(SCTP) ADVANCED PROFESSIONAL CERTIFICATE IN DATA SCIENCE AND AI

Gain hands-on experience in Python, SQL, databases, exploratory analysis, and data visualisation, applying data science techniques to real problems and deploying ML models via APIs or web apps.

LEARN MORE

TOP 3 fastest-growing roles globally include Big Data, AI & Machine Learning Specialists

(*Source : World Economic Forum, 2025*)

Programme Mode

Full-time: 3 months

Part-time: 5 months

Programme Fee

Fee before funding: $32,264 (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 coding knowledge

askpace.sctp@ntu.edu.sg

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

NTU PACE

Company Registration No: 200604393R

Programme Modules

Foundations of Data Science: Python & SQL

Build essential skills in databases, from data modelling and advanced SQL to transformation, exploration, and visualisation.

Scalable Data Solutions: Big Data Engineering Essentials

Develop and manage large-scale data pipelines and systems, spanning extraction, transformation, loading, warehousing, and distributed processing.

Building Intelligent Systems: Machine Learning & Generative AI

Acquire the expertise to craft and deploy machine learning models, including model paradigms, evaluation, and generative AI for image and text.

Certified AI Practitioner

Prepare for the AWS Certified AI Practitioner exam while mastering AI, ML, and Generative AI, including foundation models, fine-tuning and prompt engineering.

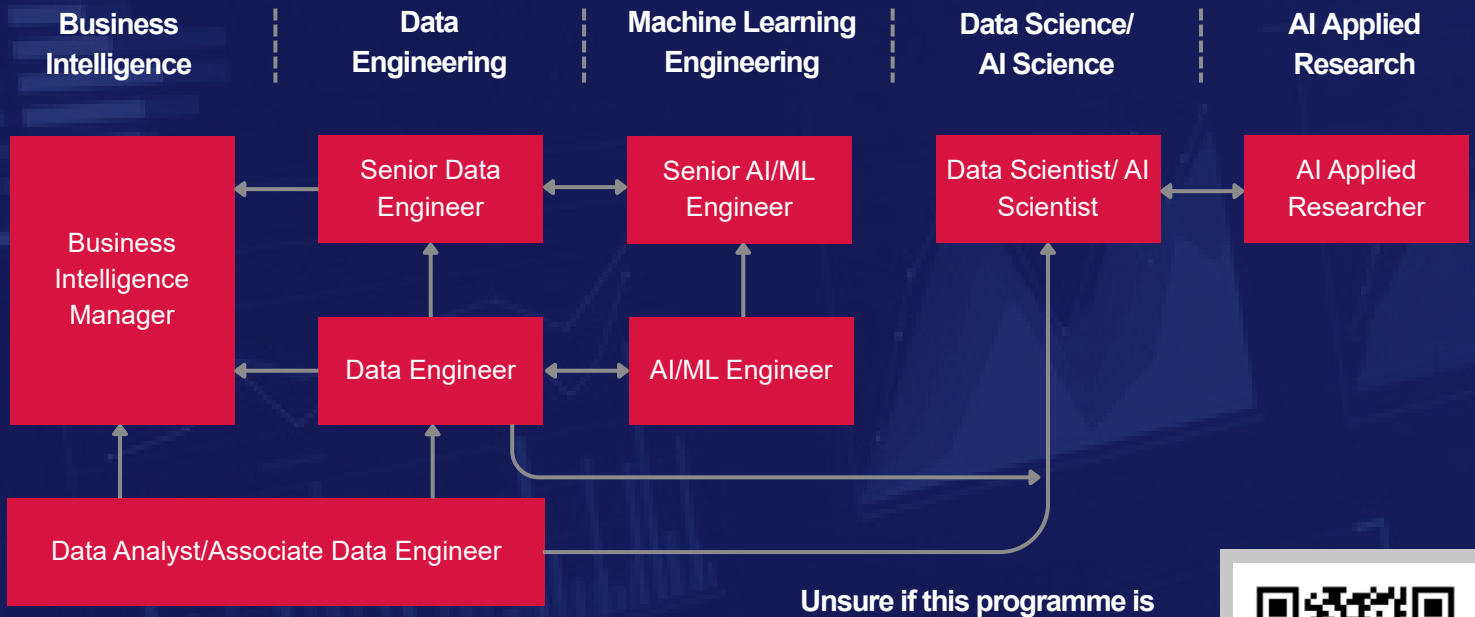
Transforming Business with GPT: Hands-on Generative AI Applications

Explore GPT API applications to enhance business outcomes, from model handling and fine-tuning to deployment and cloud integration.

Full Stack Programming and Deployment of AI Solutions

Build and deploy full-stack web applications with practical experience across front-end, back-end, databases, APIs, cloud, and Web3 technologies.

Unlock Your Future Role



(*Source : Skills Framework for Infocomm Technology, 2025*)

Unsure if this programme is right for you?

Book a session with our in-house career consultants.

Are you equipped to be at the forefront of this growing industry?