

thinQtanklearning.com

Data Science · education services datasheet

OUR LEARNING EXCLUSIVE

- Custom exam prep software and materials
- Course-specific thinQtank[®] Learning publications to make the learning fun and engaging
- Hands-on Python labs with RAPIDS on GPU-accelerated environments
- **We do not teach the test.** We always deliver valuable hands-on experience
- All reading material and study guides sent to you when you register
- Every course taught by AI engineers experienced with NVIDIA platforms
- Six months mentoring access to our engineers after the course

TRAINING CAMP FORMAT

thinQtank[®] Learning delivers this course as a **three-day instructor-led training camp**, Monday to Wednesday. About 55% lecture and 45% hands-on labs. Contact us for the schedule covering your dates.

PREREQUISITES

- No certification is required
- Recommended: About one to two years of data science with GPU-based tools; Python and pandas

TARGET AUDIENCE

- Data Scientist
- Data Analyst
- Data Engineer
- Machine Learning Engineer

CERTIFICATION

This course prepares you for the NVIDIA-Certified Associate: Accelerated Data Science (NCA-ADS) exam.

Exam	NCA-ADS, 50–60 questions in 60 minutes
Delivery	Online, remote proctored (Certiverse)
Exam fee	\$125, set by NVIDIA
Renewal	Valid two years; retake to renew

COURSE OVERVIEW

thinQtank[®] Learning is offering a unique three-day training camp comprised of three days of instructor-led learning that gives students the knowledge and skills needed to prepare and manipulate data on GPUs, run machine learning with RAPIDS, build data science pipelines, analyze and visualize results, and apply introductory MLOps practices.

The camp follows the official NVIDIA NCA-ADS exam topics and study guide, with hands-on Python labs with RAPIDS on GPU-accelerated environments throughout.

This course prepares you for **the NVIDIA-Certified Associate: Accelerated Data Science (NCA-ADS) exam**.

WHAT YOU WILL BE ABLE TO DO

- Explain GPU acceleration concepts, CPU vs. GPU workloads and memory transfer
- Clean, join, transform and engineer features on large datasets with cuDF, pandas and Dask
- Perform exploratory analysis, descriptive statistics, visualization and hypothesis testing
- Train, tune and evaluate regression, classification and clustering models with cuML and XGBoost
- Build reproducible, automated end-to-end data science pipelines with RAPIDS and Dask
- Apply introductory MLOps: experiment tracking, model persistence, drift detection and benchmarking
- Analyze time-series and graph data on the GPU
- Manage reproducible GPU environments with Conda, pip, Docker, nvidia-smi and Git

EXCLUSIVE LEARNING PACKAGE

- NCA-ADS reading plan and review guide
- NCA-ADS practice exams
- Lab notebooks you keep after the course
- Course video recordings for review

DELIVERY METHODS

- Instructor-led training
- Immersive live-online training
- On-site and custom delivery

NVIDIA CERTIFICATION PATHS

AI Infrastructure

NCA-AIO · NCP-AII · NCP-AIO ·
NCP-AIN · NCP-ARIData center, operations and
networking

Data Science

NCA-ADS · NCP-ADS

GPU-accelerated analytics and ML

Generative AI

NCA-GENL · NCA-GENM · NCP-
GENL · NCP-AAI

LLMs, multimodal and agents

3D and Simulation

NCP-OUSD

OpenUSD development

COURSE MODULES

- | | |
|---|--|
| 01 Foundations of Accelerated Data Science | 02 Python, NumPy, pandas and Jupyter Review |
| 03 GPU DataFrames with cuDF | 04 Data Cleaning, Quality and Governance |
| 05 GPU-Accelerated ETL with RAPIDS, Dask and Spark | 06 Feature Engineering and Dimensionality Reduction |
| 07 Descriptive Analysis and Visualization | 08 Machine Learning with cuML and XGBoost |
| 09 Model Evaluation and Hyperparameter Tuning | 10 Data Science Pipelines and Workflow Automation |
| 11 Time-Series and Graph Data Structures | 12 Introductory MLOps Practices |
| 13 Software and Environment Management | 14 Exam Review |

EXAM DOMAINS

Data Manipulation and Preparation		23%
Machine Learning With RAPIDS		16%
Data Science Pipelines and Workflow Automation		13%
Descriptive Analysis and Visualization		13%
Foundations of Accelerated Data Science		12%
Introductory MLOps Practices		10%
Advanced Data Structures		7%
Software and Environment Management		6%

TERMS

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