



Machine Learning with Python: Advanced Level

IT, Cybersecurity & AI

QGT-ITD-124 | Advanced | 5 or 10 days | Online, classroom, in-house

Course overview

Machine Learning with Python: Advanced Level is an advanced programme for experienced practitioners in Machine Learning with Python. It covers the principles, the requirements of ISO 27001, NIST CSF, ITIL 4 and COBIT 2019, and the practical methods used on site, with case studies from operations in the Gulf, Africa and worldwide. Available online, in the classroom in 60 cities, or in-house.

What participants will be able to do

- Explain the principles, terminology and scope of Machine Learning with Python
- Apply the relevant requirements of ISO 27001, NIST CSF, ITIL 4 and COBIT 2019
- Apply advanced analysis methods to real operating data
- Recognise common problems, risks and root causes and choose the right corrective action
- Prepare an improvement plan for their own site or organisation

Who should attend

Designed for IT professionals, analysts, engineers and digital transformation teams with at least three years of experience.

Course outline (5 days)

Day 1: Core principles revisited

Fast review and recent changes in ISO 27001, NIST CSF, ITIL 4 and COBIT 2019

Day 2: Advanced analysis methods

Detailed techniques, data interpretation and calculations

Day 3: Design and performance optimisation

Improving reliability, efficiency and cost

Day 4: Troubleshooting complex cases

Diagnosing multi-cause problems from field data

Day 5: Risk, decisions and integration

Building a risk-based plan and presenting recommendations

What the 10-day edition adds

Day 6: Applied project, part 1 – Apply the week-one methods to a case from your organisation

Day 7: Data and digital tools – Software, spreadsheets and digital tools used in practice

Day 8: Lessons from incidents and audits – What investigations and audit findings teach

Day 9: Applied project, part 2 – Complete, test and refine your solution

Day 10: Presentations and final assessment – Present to the group and complete the final assessment

Fees (USD per participant)

Duration	Live online	Classroom	In-house
5 days	\$3,000	\$5,500	On quote
10 days	\$5,500	\$9,900	On quote

Fees include course material and certificate of completion; classroom fees include refreshments and lunch. In-house training is priced per group.

Dates and cities 2027–2030

Dates	City	Format	Duration	Fee
25 Jan – 5 Feb 2027	Baku	Classroom	10 days	\$9,900
10–14 May 2027	Dublin	Classroom	5 days	\$5,500
8–19 Aug 2027	Doha	Classroom	10 days	\$9,900
19–23 Sep 2027	Jeddah	Classroom	5 days	\$5,500
29 Nov – 10 Dec 2027	Online (live)	Online (live)	10 days	\$5,500
28 Feb – 10 Mar 2028	Baku	Classroom	10 days	\$9,900
17–21 Apr 2028	Athens	Classroom	5 days	\$5,500
24 Apr – 5 May 2028	Tunis	Classroom	10 days	\$9,900
15–19 May 2028	Frankfurt	Classroom	5 days	\$5,500
11–22 Sep 2028	Online (live)	Online (live)	10 days	\$5,500
2–13 Jul 2029	Casablanca	Classroom	10 days	\$9,900
13–17 Aug 2029	Toronto	Classroom	5 days	\$5,500
24 Sep – 5 Oct 2029	Abu Dhabi	Classroom	10 days	\$9,900
22–26 Oct 2029	Kigali	Classroom	5 days	\$5,500
12–23 Nov 2029	Online (live)	Online (live)	10 days	\$5,500
21 Jan – 1 Feb 2030	Dublin	Classroom	10 days	\$9,900
4–8 Feb 2030	Cape Town	Classroom	5 days	\$5,500
28 Apr – 9 May 2030	Sharm El Sheikh	Classroom	10 days	\$9,900
30 Sep – 4 Oct 2030	Madrid	Classroom	5 days	\$5,500
28 Oct – 8 Nov 2030	Online (live)	Online (live)	10 days	\$5,500

How to register

Register online or scan the code

<https://qimmatrainig.com/courses/machine-learning-with-python-advanced-level/>

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