Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

CHEMICAL ENGINEERING

AI Applications in Chemical Engineering Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
10 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 24, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

P.O. Box 102802-00101, Nairobi, Kenya

Training Centers: Nairobi • Mombasa • Kigali • Dubai • Live Virtual Academy

Tel: +254 724 527 104 | +254 734 969 612

Email: training@datastatresearch.org

www.datastatresearch.org

AI Applications in Chemical Engineering Training Course

Chemical Engineering • 10 Days Intensive • Accredited Certification

Course Overview

AI Applications in Chemical Engineering Training Course provides participants with practical knowledge and hands-on experience in applying Artificial Intelligence, Machine Learning (ML), Deep Learning, Digital Twins, Generative AI, and Industrial Data Science within chemical engineering environments.

Key Skills & Software Tools Covered

Process modeling • Predictive analytics • Machine learning • Intelligent optimization

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
7 Dec 2026 – 18 Dec 2026	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Dec 2026 – 18 Dec 2026	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Dec 2026 – 1 Jan 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**

4 Jan 2027 – 15 Jan 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
4 Jan 2027 – 15 Jan 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
18 Jan 2027 – 29 Jan 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Feb 2027 – 12 Feb 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Feb 2027 – 26 Feb 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**

1 Mar 2027 – 12 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
1 Mar 2027 – 12 Mar 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
15 Mar 2027 – 26 Mar 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
29 Mar 2027 – 9 Apr 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**

12 Apr 2027 – 23 Apr 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
12 Apr 2027 – 23 Apr 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
26 Apr 2027 – 7 May 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
10 May 2027 – 21 May 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
24 May 2027 – 4 Jun 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**

7 Jun 2027 – 18 Jun 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
7 Jun 2027 – 18 Jun 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
21 Jun 2027 – 2 Jul 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
5 Jul 2027 – 16 Jul 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**

19 Jul 2027 – 30 Jul 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
19 Jul 2027 – 30 Jul 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
2 Aug 2027 – 13 Aug 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
16 Aug 2027 – 27 Aug 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
30 Aug 2027 – 10 Sep 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**

13 Sep 2027 – 24 Sep 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
13 Sep 2027 – 24 Sep 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
27 Sep 2027 – 8 Oct 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
11 Oct 2027 – 22 Oct 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**

25 Oct 2027 – 5 Nov 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
25 Oct 2027 – 5 Nov 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
8 Nov 2027 – 19 Nov 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
22 Nov 2027 – 3 Dec 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Nairobi	Classroom / 10d	**$3,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Kigali	Classroom / 10d	**$6,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Dubai	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Cape Town	Classroom / 10d	**$9,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Addis Ababa	Classroom / 10d	**$6,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Singapore	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Istanbul	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Bangkok	Classroom / 10d	**$10,000 USD / KES 220,000**
6 Dec 2027 – 17 Dec 2027	Accra	Classroom / 10d	**$8,000 USD / KES 220,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

AI Applications in Chemical Engineering Training Course

Introduction

Artificial Intelligence (AI) is revolutionizing the chemical engineering industry by enabling smart manufacturing, predictive analytics, process optimization, digital transformation, machine learning-driven decision-making, autonomous operations, industrial IoT integration, advanced process control, sustainability optimization, and real-time performance monitoring. As chemical plants increasingly adopt Industry 4.0 technologies, AI-powered systems are becoming essential tools for improving operational efficiency, reducing energy consumption, enhancing product quality, minimizing downtime, and strengthening safety management across complex chemical processes.

AI Applications in Chemical Engineering Training Course provides participants with practical knowledge and hands-on experience in applying Artificial Intelligence, Machine Learning (ML), Deep Learning, Digital Twins, Generative AI, and Industrial Data Science within chemical engineering environments. Participants will explore real-world industrial applications, emerging technologies, implementation strategies, and successful case studies that demonstrate how AI is transforming chemical production, refining, petrochemicals, pharmaceuticals, energy systems, and sustainable manufacturing operations.

Course Duration

10 Days

Course Objectives

By the end of this training course, participants will be able to:

- Understand AI fundamentals and their applications in chemical engineering.
- Apply machine learning algorithms for process optimization.
- Develop predictive maintenance models using industrial data.
- Implement AI-driven advanced process control strategies.
- Analyze large-scale chemical process datasets using data analytics tools.
- Design digital twin models for plant performance improvement.
- Utilize deep learning techniques for process monitoring and fault detection.
- Integrate Industrial IoT and AI technologies for smart manufacturing.
- Optimize energy efficiency using AI-powered analytical tools.
- Apply AI solutions for sustainability and carbon reduction initiatives.
- Evaluate generative AI applications in process engineering workflows.
- Improve safety management through intelligent risk prediction systems.
- Develop AI implementation roadmaps for industrial chemical facilities.

Target Audience

This course is designed for:

- Chemical Engineers
- Process Engineers
- Production Engineers
- Plant Managers
- Operations Supervisors
- Data Scientists working in industrial sectors
- Automation and Control Engineers
- R&D and Innovation Professionals

Course Modules

Module 1: Introduction to AI in Chemical Engineering

- Evolution of AI in industrial applications
- AI technologies and terminology
- Industry 4.0 and smart manufacturing
- Opportunities and challenges
- AI adoption roadmap
- Case Study: AI transformation in a modern petrochemical complex.

Module 2: Fundamentals of Data Science for Chemical Engineers

- Industrial data collection methods
- Data preprocessing and cleaning
- Data visualization techniques
- Statistical analysis fundamentals
- Data quality management
- Case Study: Data-driven improvement of reactor performance.

Module 3: Machine Learning Fundamentals

- Supervised learning techniques
- Unsupervised learning methods
- Classification and regression models
- Model training and validation
- Industrial AI applications
- Case Study: Product quality prediction using machine learning.

Module 4: Predictive Maintenance Applications

- Equipment health monitoring
- Failure prediction methodologies
- Sensor data analytics
- Maintenance optimization strategies
- Reliability-centered maintenance
- Case Study: Predictive maintenance for centrifugal compressors.

Module 5: AI-Driven Process Optimization

- Process performance indicators
- Optimization algorithms
- Real-time process improvement
- Production efficiency enhancement
- Cost reduction techniques
- Case Study: AI optimization of distillation column operations.

Module 6: Advanced Process Control Using AI

- Model predictive control (MPC)
- Intelligent control systems
- Adaptive control techniques
- AI-enhanced process stability
- Performance benchmarking
- Case Study: AI-assisted refinery process control system.

Module 7: Deep Learning Applications

- Neural network fundamentals
- Deep learning architectures
- Pattern recognition techniques
- Process anomaly detection
- Industrial image analytics
- Case Study: Deep learning for catalyst performance monitoring.

Module 8: Digital Twins for Chemical Plants

- Digital twin concepts
- Virtual plant modeling
- Real-time simulation integration
- Predictive operational analysis
- Asset performance management

- Case Study: Digital twin implementation in a fertilizer plant.

Module 9: Industrial IoT and AI Integration

- Smart sensors and connectivity
- Edge computing applications
- Real-time data acquisition
- Industrial communication protocols
- Cyber-physical systems
- Case Study: IoT-enabled chemical production facility.

Module 10: AI for Safety and Risk Management

- Process hazard prediction
- Intelligent safety monitoring
- Risk assessment automation
- Emergency response optimization
- Safety performance analytics
- Case Study: AI-based accident prevention system.

Module 11: Sustainability and Energy Optimization

- Carbon footprint analytics
- Energy consumption forecasting
- Resource efficiency improvement
- Circular economy applications
- Sustainable manufacturing strategies
- Case Study: AI-driven energy savings in a chemical plant.

Module 12: Generative AI in Chemical Engineering

- Generative AI fundamentals
- Engineering knowledge management
- AI-assisted technical documentation
- Process troubleshooting support
- Engineering productivity enhancement
- Case Study: Generative AI for operational decision support.

Module 13: AI Applications in Research and Development

- AI-assisted material discovery
- Catalyst development optimization
- Experimental design acceleration
- Chemical formulation analytics
- Innovation management
- Case Study: Machine learning in advanced catalyst development.

Module 14: AI Implementation Strategy and Governance

- AI project planning
- Change management practices
- AI governance frameworks
- Ethical and regulatory considerations
- ROI measurement techniques
- Case Study: Enterprise-wide AI deployment strategy.

Module 15: Future Trends and Capstone Project

- Autonomous chemical plants
- Explainable AI technologies
- AI and robotics integration

- Emerging industrial innovations
- Capstone implementation project
- Case Study: Designing an AI-enabled smart chemical manufacturing facility.

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/ai-applications-in-chemical-engineering-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.