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

MINERAL & MINING ENGINEERING

Predictive Analytics in Mining 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

Predictive Analytics in Mining Training Course

Mineral & Mining Engineering • 10 Days Intensive • Accredited Certification

Course Overview

The Predictive Analytics in Mining Training Course is designed to transform mining operations through AI-driven forecasting, machine learning models, big data analytics, and Industrial IoT (IIoT) integration

Key Skills & Software Tools Covered

Data modeling • Machine learning • Trend forecasting • Decision analytics

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**
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**
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	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**
29 Mar 2027 – 9 Apr 2027	Accra	Classroom / 10d	**$8,000 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**
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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	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**
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**
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

Predictive Analytics in Mining Training Course

Introduction

The Predictive Analytics in Mining Training Course is designed to transform mining operations through AI-driven forecasting, machine learning models, big data analytics, and Industrial IoT (IIoT) integration. As the mining sector rapidly evolves toward Mining 4.0, digital transformation, smart mining, and data-driven decision-making, predictive analytics has become a critical capability for improving productivity, safety, and operational efficiency.

This training equips professionals with advanced skills in predictive maintenance, ore grade prediction, equipment failure forecasting, real-time sensor analytics, and risk modeling. Participants will learn how to leverage Python, R, Power BI, cloud platforms, and advanced statistical modeling to optimize mining performance. The course bridges the gap between traditional mining engineering and modern AI-powered predictive intelligence systems, enabling organizations to reduce downtime, increase yield accuracy, and enhance sustainable mining practices.

Course Duration

10 Days

Course Objectives

- Understand fundamentals of predictive analytics in Mining 4.0
- Apply machine learning algorithms for mining data analysis
- Develop predictive maintenance models for mining equipment

- Analyze real-time sensor and IoT mining data streams
- Improve ore grade forecasting using AI models
- Implement big data analytics in mining operations
- Use Python and R for mining data science workflows
- Build risk prediction models for mine safety
- Optimize production efficiency using predictive insights
- Visualize mining data using Power BI and Tableau dashboards
- Integrate cloud computing in mining analytics
- Reduce operational costs using data-driven decision systems
- Apply AI-based decision support systems in mining

Target Audience

- Mining Engineers
- Data Analysts in Mining Sector
- Geologists and Exploration Specialists
- Operations Managers in Mining Companies
- Maintenance Engineers & Technicians
- Industrial Data Scientists
- Safety and Risk Management Officers
- Mining Technology Consultants

Course Modules

Module 1: Introduction to Predictive Analytics in Mining

- Fundamentals of predictive analytics
- Mining industry transformation (Mining 4.0)
- Data-driven mining ecosystems
- Types of mining data sources
- Role of AI in mining optimization
- Case Study: Digital transformation in an open-pit copper mine

Module 2: Mining Data Fundamentals

- Structured vs unstructured mining data
- Sensor and geological datasets
- Data acquisition systems
- Data quality challenges
- Data preprocessing techniques
- Case Study: Data cleansing in coal mining operations

Module 3: Statistics for Predictive Modeling

- Descriptive and inferential statistics
- Regression techniques
- Probability distributions in mining
- Correlation analysis
- Hypothesis testing
- Case Study: Blast efficiency statistical optimization

Module 4: Python for Mining Analytics

- Python libraries (NumPy, Pandas)
- Data manipulation techniques
- Mining dataset handling
- Automation scripts
- Exploratory data analysis
- Case Study: Equipment failure dataset analysis

Module 5: Machine Learning Fundamentals

- Supervised vs unsupervised learning
- Classification and regression models
- Model evaluation metrics
- Overfitting and underfitting
- Feature engineering
- Case Study: Predicting haul truck breakdowns

Module 6: Predictive Maintenance Systems

- Equipment health monitoring
- Failure pattern recognition
- Sensor-based analytics
- Lifecycle prediction models
- Maintenance scheduling optimization
- Case Study: Conveyor belt failure prediction

Module 7: IoT in Mining Operations

- Industrial IoT architecture
- Real-time data streaming
- Sensor integration systems
- Edge computing in mines
- Communication protocols
- Case Study: Smart underground ventilation system

Module 8: Big Data Analytics in Mining

- Hadoop and Spark frameworks
- Data lakes for mining operations
- Distributed processing
- Large-scale dataset handling
- Performance optimization
- Case Study: Large-scale ore processing analytics

Module 9: Ore Grade Prediction Models

- Geostatistics basics
- Spatial data modeling
- AI-based grade estimation
- Sampling techniques
- Resource estimation accuracy
- Case Study: Gold deposit grade prediction

Module 10: Risk Prediction & Safety Analytics

- Hazard identification models
- Accident prediction systems
- Safety KPI analytics
- Real-time monitoring dashboards
- Emergency response analytics
- Case Study: Underground collapse risk prediction

Module 11: Data Visualization & Dashboards

- Power BI mining dashboards
- Tableau visualization tools
- KPI tracking systems
- Interactive reporting

- Storytelling with data
- Case Study: Production efficiency dashboard

Module 12: Cloud Computing in Mining

- AWS/Azure mining solutions
- Cloud data storage systems
- Scalable analytics platforms
- Data security in cloud
- Hybrid mining IT systems
- Case Study: Cloud-based mine monitoring system

Module 13: AI Optimization Techniques

- Neural networks in mining
- Deep learning applications
- Optimization algorithms
- Reinforcement learning basics
- Decision intelligence systems
- Case Study: Autonomous drilling optimization

Module 14: Real-Time Predictive Systems

- Streaming analytics platforms
- Real-time anomaly detection
- Event-driven architectures
- Alert systems design
- Operational dashboards
- Case Study: Real-time truck fleet monitoring

Module 15: Capstone Mining Analytics Project

- End-to-end predictive modeling
- Industry dataset application
- Model deployment strategies
- Business impact analysis
- Presentation and reporting
- Case Study: Full predictive mining operations system

Training Methodology

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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/predictive-analytics-in-mining-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.