



Data Analytics and AI

ZTH-DAT-003 | Digital Makers | Specialisation | Data and AI

38 weeks

duration

500 hours

learning time

2 x 2h

live sessions per week

US\$500.00

fee per learner

Specialist school with a monthly applied project and a work placement through Zambesi Digital Works. Career targets: Data analyst, BI analyst, junior data scientist, M&E data specialist.

Delivery

Offline-ready: can run without internet

Suitable for

Tertiary and university, Women and girls, Working professionals, NGOs and community hubs

What you will be able to do

- Complete a specialist school with an applied project every month and a final work placement through Zambesi Digital Works. Capstone and public portfolio required.

Syllabus

1. Foundation (4 wks): Statistics basics, spreadsheets, data ethics -> Cleaned dataset
2. Python for data (6 wks): Python, pandas, visualisation, notebooks -> Analysis notebook
3. SQL and databases (5 wks): Queries, joins, aggregation, data warehousing concepts -> SQL report pack
4. Dashboards (5 wks): Open-source and free BI tools, storytelling with data -> Interactive dashboard
5. Machine learning basics (6 wks): Regression, classification, model evaluation, bias -> Prediction model with evaluation
6. Applied AI and data products (4 wks): Computer vision and language examples, deployment -> Small AI data product
7. Capstone and placement (8 wks): NGO, school or SME dataset project -> Data case study and presentation

Hands-on practical work

- Real NGO or school dataset projects
- dashboards
- model testing

Resources and equipment

Laptops, notebooks, SQL database, dashboard tools

Off-grid and solar option

Local datasets on server; batch uploads





Assessment

At least 60% overall, all core projects, approved capstone, public portfolio, satisfactory placement report.

Career direction

Data analyst, BI analyst, junior data scientist, M&E data specialist

Data roles are advertised across banks, NGOs, retail, telecoms and government

Next steps

Entry from EX2; TR5; TR11

Enrol

Skills first, certificate second: you finish with something you can do and a QR-verifiable certificate to prove it.

Enrol online at <https://zambesi.ac.zw/course.php?slug=data-analytics-and-ai> or contact info@zambesi.ac.zw / +263 7X XXX XXXX.

