

# The 16th CHPC & 8th NITheCS Coding Summer School in Data Science & Machine Learning

**26 January – 6 February 2026 (Mon – Fri) | 09h30 – 16h00 SAST**

Attend at a designated university / research location in South Africa

## Upskill through training in Data Science and Machine Learning

The School aims to train researchers across South Africa in Scientific Computing, Data Science and Machine Learning. It offers daily lectures and tutorials, notes and exercises, and light snacks and refreshments. Qualifying students will also receive certificates.

### Content

#### WEEK 1: Data Science

- Workflow management
- Extract, Transform, Load (ETL)
- Exploratory Data Analysis (EDA) & Visualisation
- Terminal Skills and Leveraging AI Tools

#### WEEK 2: Machine Learning

- Computational Thinking
- Probability Theory and Statistics
- Machine Learning and AI fundamentals

### Who can apply?

- Talented students registered for a postgraduate degree
- Researchers and professionals in industry
- Final-year undergraduates planning to do postgraduate studies in 2026.

**NOTE: a background in Python programming is required.** After registering for the School, you will be emailed a link to a compulsory entrance test. The sooner you complete it, the sooner you'll know if you qualify.

### Optional preparation (if new to Python):

- Take a free course: *Python for Beginners* ([alison.com/course/python-for-beginners](https://alison.com/course/python-for-beginners))
- Attend a NITheCS Software Carpentry Workshop.

### Where to attend

Attend at a designated university location in South Africa. Space is limited, so apply soon.  
Note, no accommodation or travel costs will be covered.

**MORE INFO / REGISTER:** <https://bit.ly/3L3qwc3>

**Register by 15 December 2025**

