





47.9%

47.9% of university students did not complete their degrees.

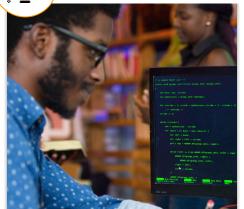
32.1%

Black students had the highest dropout rate, with **32.1%** leaving in their first year.

Graduates are not work-ready







- Full-Stack Web Dev
- Data Engineer
- Data Scientist







- Experience Designer (UX)
- Business Analyst
- Data Analyst



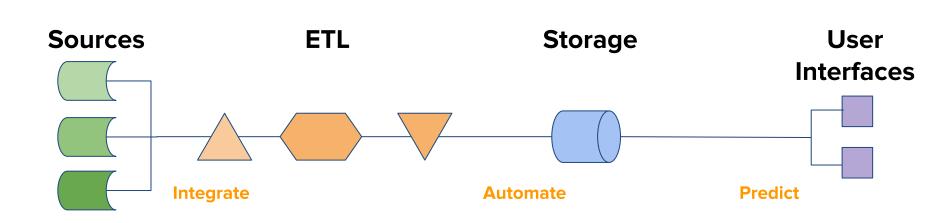




- Interface Designer (UI)
- Copywriter
- Multimedia Content Producer



Career tracks in the data lifecycle









Recruit young people through our online platform



>25,310



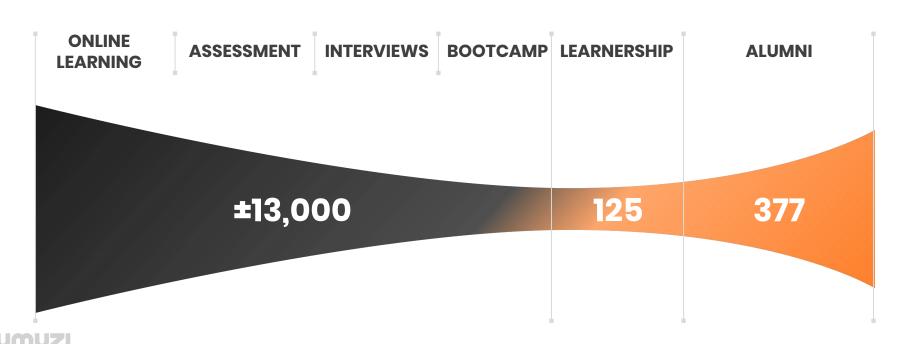
3,877



18,989



2,444



How do we assess potential?

Automated online process



Practical tests



Professionalism





Umuzi's 12 month learnership/bursary programme upskills young people for high-value careers





What do we teach in the data science department at Umuzi?



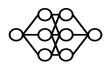
Basic programming



Getting, cleaning and transforming data



Summary statistics and visualisation

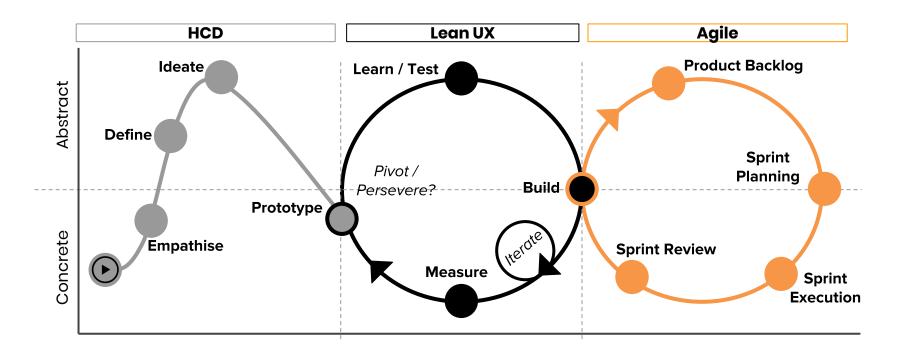


Machine learning

Shared Processes Agile

Design Thinking

Collaboration across the product development process





Classify smart-meter users

Recognise credit buying and electricity consumption patterns

Identify fraudulent behaviour and anomalous measurements









Case Study: Umuzi Recruitment Portal





Challenges

- Convincing employers to employ non-grads as data scientists
- Length of programme to teach curriculum?
- Psychological baggage
- Scaling
- Demand companies not ready yet





Success stories | Bukelwa Moerane



Founder <u>@Inclined.mark</u>, Neuromarketing, Digital Marketer, Influencer, Entrepreneur



Thank you

Github curriculum:

https://github.com/Umuzi-org/master-reference

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