



Certificate of Completion is awarded to

***Biniyam Belayneh Demisse***

for successfully completing

**Machine Learning Engineering, Data Engineering and Web3 Engineering Training**

(with Distinction)

This certifies the mastery of essential topics in Machine Learning, Data Engineering and Web3 Engineering through 11 completed challenges in a 12-weeks intense training. Less than 5% of applicants completed this program. See the details of skills acquired in the extended document attached.

———— ***August, 2022*** ————

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**Dr. Yabebal Fantaye**  
*Co-founder*

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**Arun Sharma**  
*Co-founder*



## Program Details

10 Academy is a program to identify, train and launch the careers of some of Africa's highest potential young people.

Intensive training in **Machine Learning Engineering, Data Engineering and Web3 Engineering** was undertaken and successfully completed from 09th May 2022 to 29th July 2022. This training was full-time remotely with study and work time of 60+ hours/week.

The training provided graduates with skills to enable them to be a job-ready Machine learning Engineer, Data engineer or Web3 Engineer including:

### **Programming**

- Advanced Python
- Advanced SQL
  - MySQL
  - Postgres

### **Dashboards**

- Streamlit
- Flask
- Redash
- Superset

### **Machine Learning**

- Exploratory Data Analysis
- Statistical Modeling
- Predictive Modeling
- Time Series Analysis
- Machine Learning Modeling with scikit-learn
- Casual inference
- Deep learning techniques
- MLOps with DVC and MLFlow

### **Data Engineering**

- Data cleaning
- Big data techniques
- Kafka streaming
- Spark transformation
- Airflow orchestration
- Dbt transformation
- Tech stack building
- Tech stack change automation

### **Deployment**

- Docker
- Heroku
- Github
- Travis
- CI/CD
- Unit Testing

### **Career Skills**

- Reporting
  - Blog writing
  - Report for clients
  - Slide preparation and presentation
- Team work
- Career development
- Enterprise work culture
- How to ask questions
- Design thinking

### **Web3 Engineering**

- Ethereum development
- dApp development
- Use cases in DeFi, NFTs and others
- Algorand blockchain

### **Cloud**

- AWS

Assessment was done through daily standup meetings, presentations and assessment of 10 project assignments completed over the 12-week long training period.

Trainees graduating were among the top 5% of all talent that applied for the program and completed an estimated 700 hours of Machine learning and Data engineering work as part of their training. Based on their performance, we recommend them highly.

For any questions on the training or to verify this certificate, please contact [train@10academy.org](mailto:train@10academy.org)

August, 2022

**Dr. Yabebal Fantaye**  
Co-founder

**Arun Sharma**  
Co-founder