

**Verified**  
Certificate



**Rav Ahuja**

AI and Data Science Program Director

IBM

This is to certify that

**Gregory Adiprawira**

successfully completed and received a  
passing grade in

**Yan Luo**

Ph.D., Data Scientist and Developer

IBM

**DB0250EN: Building ETL and Data  
Pipelines with Bash, Airflow and  
Kafka**

a course of study offered by IBM, an  
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**Verified Certificate**  
Issued November 2, 2025

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