



This is to certify that

Tran Pham Cong Danh

successfully completed and received a passing grade in

Simplifying data pipelines with Apache Kafka

(BD0123EN, provided by IBM)

A course on **cognitive class.ai**Powered by **IBM Developer Skills Network.**

Issued by Cognitive Class

October 3, 2024

Authenticity of this certificate can be validated by going to: https://courses.cognitiveclass.ai/certificates/92e6840bb6ed4d518ffa737ec8efc162