



This is to certify that

Pulkit Kumar

successfully completed and received a passing grade in

Spark Fundamentals I (BD0211EN, provided by BigDataUniversity)

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

Issued by Cognitive Class

July 25, 2022

Authenticity of this certificate can be validated by going to: https://courses.cognitiveclass.ai/certificates/e227919d670b4979ab002e099ab08e96

Certificate ID Number: e227919d670b4979ab002e099ab08e96

July 25, 2022