## Verified Certificate

This is to certify that

chikirigalla Paramesh

successfully completed and received a passing grade in

**BD0225EN: Big Data, Hadoop, and Spark Basics** 

a course of study offered by IBM, an online learning initiative of IBM.

Karthik Muthuraman
Software Engineer (Machine Learning)

**IBM** 

Aije Egwaikhide

Senior Data Scientist

**IBM** 



**Verified Certificate** Issued April 2, 2024 Valid Certificate ID 91d4e530252b441083362e8d06212408