

# Professional Certificate

This is to certify that

**A Chandra Kishan Singha**

successfully completed all courses and received  
passing grades for a Professional Certificate in

**Essential Technologies for Business**

a program offered by IBM, in collaboration with edX.



A handwritten signature in black ink, appearing to read "Rav Ahuja".

**Rav Ahuja**

Global Program Director

IBM

IBM



**PROFESSIONAL CERTIFICATE**

Issued December 2023

**VALID CERTIFICATE ID**

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