PROFESSIONAL CERTIFICATE



This is to certify that

James Portolese

Rafael Irizarry
Professor of Biostatistics

Harvard T.H. Chan School of Public Health

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

Data Science

a program offered by HarvardX, in collaboration with edX.



PROFESSIONAL CERTIFICATE Issued January 2020

VALID CERTIFICATE ID 4a05f4822403473db8993999e8a97a0f