

Professional Certificate

This is to certify that

Emanuela Pannini

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 December 2024

VALID CERTIFICATE ID
6bdf768a79e7469ea284ea1071798b3e

HarvardX

A handwritten signature in black ink, appearing to read 'Rafael Irizarry'.

Rafael Irizarry

Professor of Biostatistics

Harvard T.H. Chan School of Public Health