

Verified
Certificate

HarvardX



Rafael Irizarry

Professor of Biostatistics

Harvard T.H. Chan School of Public Health

This is to certify that

MR JAMES EDWARD KOWALIK

successfully completed and received a passing grade in

PH125.6x: Data Science: Wrangling

a course of study offered by HarvardX, an online learning
initiative of Harvard University.



Verified Certificate
Issued April 15, 2022

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