## Verified Certificate

**Harvard** 

Rafael Irizarry

**Professor of Biostatistics** 

Harvard T.H. Chan School of Public Health

This is to certify that

## **Emanuela Pannini**

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 January 5, 2024 Valid Certificate ID b17e1291e92d4390a540f34f71254267