



This is to certify that

Pavlos Protopapas Scientific Program Director Harvard

Jose Pedro Gil Suárez

successfully completed and received a passing grade in

CS109x: Introduction to Data Science with Python

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



Verified Certificate Issued agosto 17, 2023 **Valid Certificate ID** a4cd1498320c4586b3da2c2b639d0fd3