

# Verified Certificate



A handwritten signature in blue ink, appearing to read "Pavlos Protopapas".

**Pavlos Protopapas**

Scientific Program Director

*Harvard*

This is to certify that

**Amine Benkirane**

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 July 12, 2024

**Valid Certificate ID**

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