



This is to certify that

Scientific Program Director Harvard

Hitoki Fukamachi

successfully completed and received a passing grade in

CS109xa: Machine Learning and Al with Python

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



Verified Certificate

Valid Certificate ID Issued September 7, 2025 <u>2cd0c4b04c524220ab985b4c34c463a6</u>