

# *Professional* Certificate

This is to certify that

**Hai Nam PHAM**

successfully completed all courses and received  
passing grades for a Professional Certificate in

## **Data Science and Machine Learning**

a program offered by HarvardX, in collaboration  
with edX.

**Harvard**X



**Pavlos Protopapas**  
Scientific Program Director  
*Harvard University*



**PROFESSIONAL CERTIFICATE**  
Issued October 2024

**VALID CERTIFICATE ID**  
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