



CERTIFICATE OF COMPLETION

Jacob Hahn

HAS SUCCESSFULLY COMPLETED THE COURSE

Python

ON OCTOBER 30, 2025

A handwritten signature in black ink that reads "Colin Morris".

COLIN MORRIS, KAGGLE INSTRUCTOR

A handwritten signature in black ink that reads "Alexis Cook".

ALEXIS COOK, HEAD OF KAGGLE LEARN



CERTIFICATE OF COMPLETION

Jacob Hahn

HAS SUCCESSFULLY COMPLETED THE COURSE

Pandas

ON OCTOBER 31, 2025

Aleksey Bilogur

Alexis Cook

ALEKSEY BILOGUR, KAGGLE INSTRUCTOR

ALEXIS COOK, HEAD OF KAGGLE LEARN