



The certification for the completion of the module

Text Mining with Python

Has been awarded to

Karim MEDLEJ PÉREZ

issued on 26/07/2023 in Paris



Certification number

52a38a8c-51ce-4201-bc26-be49417a6c92

A handwritten signature in black ink, appearing to read "CS", positioned above a horizontal line.

Charles Sutton
Lead Data Scientist