



The certification for the completion of the module

Text Mining with Python

Has been awarded to

Youcef DJIDJELLI

issued on 28/02/2023 in Paris



Certification number

5dc6a034-7b14-47b4-8893-79f409d288f7

A handwritten signature in black ink, appearing to read "Charles Sutton".

Charles Sutton
Lead Data Scientist