



Certificate no: UC-8546a6d1-b1dd-4fb5-b307-c6cd205c7d5d

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Reference Number: 0004

CERTIFICATE OF COMPLETION

# Applied Text Mining and Sentiment Analysis with Python

Instructors **Benjamin Termonia**

**ISABELA MOREIRA DE ARAÚJO**

Date **Dec. 22, 2023**

Length **2.5 total hours**