



This is to certify that

Ibrahim Ayoubi

successfully completed and received a passing grade in

Data Analysis with Python (DAOLOIGEN, provided by IBM)

A course on cognitive class.ai Powered by IBM Developer Skills Network.

Issued by Cognitive Class

June 10, 2023

Authenticity of this certificate can be validated by going to:

https://courses.cognitiveclass.ai/certificates/d724909615f147bb874becda8f147b00

Certificate ID Number: d724909615f147bb874becda8f147b00

June 10, 2023

7