



# Certificate of Completion

**Brian Filipiak**

has successfully completed the

**MOOC Machine Learning in Weather & Climate**  
(up to 40 hours)  
January – April 2023

organised by  
the European Centre for Medium-Range Weather Forecasts (ECMWF)  
in partnership with  
the International Foundation Big Data and Artificial Intelligence  
for Human Development (IFAB)

Florence Rabier  
Director General of ECMWF

Francesco Ubertini  
President of IFAB and CINECA



**Tier 1 – Machine Learning in  
Weather & Climate**  
up to 13 h 30 min

**Tier 2 – Concepts of  
Machine Learning**  
up to 12 h

**Tier 3 – Practical Machine  
Learning applications  
in Weather & Climate**  
up to 14 h 30 min