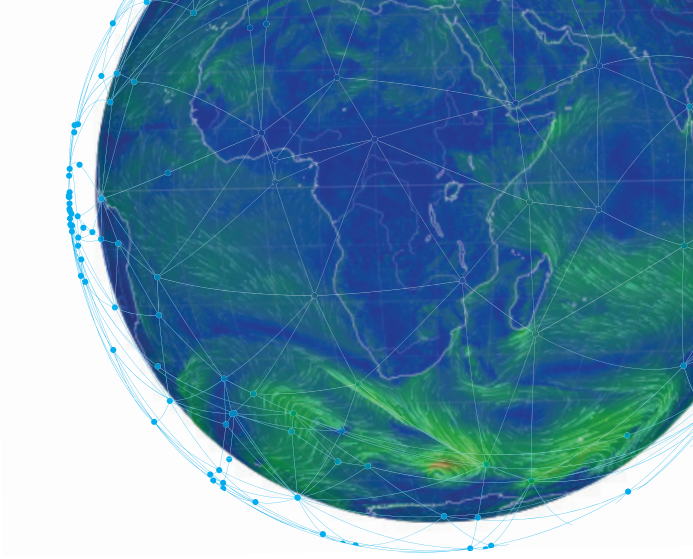
ECMWF
EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS

in partnership with
iFAB
INTERNATIONAL FOUNDATION BIG DATA AND ARTIFICIAL INTELLIGENCE FOR HUMAN DEVELOPMENT



MOOC
Machine Learning in Weather & Climate

NUMERICAL WEATHER & CLIMATE PREDICTIONS

Discover how cutting-edge techniques impact our characterisation of weather and climate. In this Massive Open Online Course (MOOC) you will explore the application of Machine Learning (ML) – a branch of Artificial Intelligence (AI) – across the main stages of numerical weather and climate predictions. From the acquisition and handling of input observations to their assimilation into models, and finally to forecasting and post-processing, you will uncover both the added value and limitations of ML.

WHAT IS THE MOOC AND WHO IS IT FOR?

It is a fully online FREE training open to anyone interested in the subject. The first part of the course is a high-level introduction to the key concepts. Later sections become more technical and provide hands-on experience in the application of ML algorithms.

Meet and interact with leading experts across the communities of Earth system sciences, high-performance computing and ML from around the world.

JOIN NOW AND BUILD YOUR OWN NUMERICAL WEATHER MODEL

LAUNCH: JANUARY 2023

Divided into three tiers, the MOOC takes you on a discovery journey mixing e-learning activities with expert webinars. Depending on your interest or expertise, you may limit your participation to one or two of the three tiers, but you will miss part of the adventure.

Over 10 weeks, with 3-4 study hours a week, explore the added value and limitations of AI, become able to differentiate between different ML concepts and make first-hand experiences with practical applications using the powerful ECMWF tools. In the end, you will be able to apply ML techniques to real-world problems and thus build your own numerical weather model.

To register, click below and access 36 hours of quality learning with experts from the field.

SIGN UP

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Competence Centre