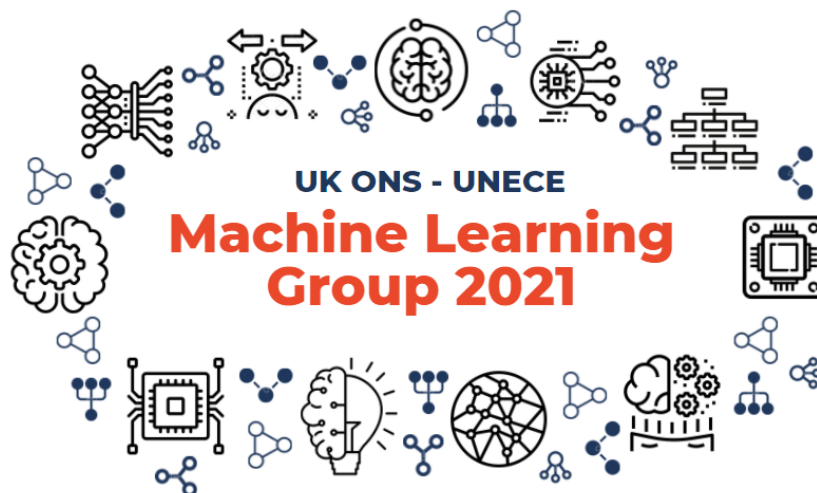


Machine Learning Group 2021 Webinar



UK ONS-UNECE Machine Learning Group 2021 webinar will be held virtually on 19th November 13:00 - 17:00 CET ([convert this to your local time](#))

New ML Group 2021 output page is now available through [this link](#)

Note that the webinar is held as a side event of the [High-Level Group on Modernisation of Official Statistics \(HLG-MOS\) 2021 Workshop](#)

PROGRAMME

* time is in Central European Time (CET), [click here to check the time in your local timezone](#)

** programme is subject to change, all documents will be uploaded as they become available

Time (CET)	Title	Speakers	Documents
13:00	Welcome and Project Overview	Eric Deebeben (Head of International, Data Science Campus, ONS, UK) Louisa Nolan (Chief Data Scientist, Data Science Campus, ONS, UK)	
13:15	Guest Panel: Strategic Priorities for Machine Learning in the work of National Statistics Offices	Louisa Nolan (ONS, UK) Sevgui Erman (Statistics Canada; Director and Chief Data Scientist) Jakob Engdahl (Statistics Sweden; Senior Strategist)	Presentation (Statistics Canada)
Work Stream 1. Pilot studies: from Idea to Valid Solutions			
13:40	The Utilisation of Satellite Imagery Analysis for Poverty Mapping in Indonesia	Arie Wahyu (Statistics Indonesia)	Presentation
13:55	Exploring Model-Assisted Machine Learning Estimates of Consumer Expenditures	Clayton Knappenberger (US, Census Bureau)	Presentation
14:10	A Shared Service for Text Classification	Klaus Lehmann (Chile, INE)	Presentation
14:25	Q&A		
14:40	Live poll for ML application areas		
14:45	Break		
Work Stream 2. From Valid Solution to Production / Work Stream 3. Data Ethics and Governance			
14:55	Use Cases applied to a Data Lake Prototype in a National Statistical Office	Abel Coronado (Mexico, INEGI)	Presentation
15:10	Ethical Consideration in the Use of Machine Learning for Research and Statistics	Alice Toms (UK, Statistics Authority)	Presentation
15:25	Q&A		
Work Stream 4. On the Quality of Training Data / Work Stream 5. On the Quality Framework for Statistical Algorithm			
15:35	From Theory to Practice: Detecting Model Decay	Riitta Piela (Statistics Finland)	Presentation
15:50	Holistic Approaches to Evaluating a Machine Learning Model: A case study for automated coding	Jose Jiminez (Mexico, INEGI)	Presentation
16:05	Q&A		
16:15	Break		
Machine Learning Group - the way forward			
16:20	Future work presentation	Alison Baily (UK, ONS) and InKyung Choi (UNECE)	
16:30	Discussion		
16:50	Wrap up and conclusion		

ABOUT THE WEBINAR

Many National Statistical Offices (NSOs) are exploring how machine learning (ML) can be used to increase the relevance and quality of official statistics in an environment of growing demands for trusted information, rapidly developing and accessible technologies, and numerous competitors. While the specific business environments may vary depending on the country, NSOs face similar types of challenges which can benefit from sharing knowledge, experiences and collaborating on developing common solutions within the broad official statistical community.

Building on the work of the [UNECE HLG-MOS Machine Learning Project \(2019-2020\)](#), the [UK Office for National Statistics Data Science Campus](#), in partnership with the [UNECE HLG-MOS](#), launched a new international initiative, the Machine Learning Group 2021, in January this year. The Group aims to:

- Facilitate the creation, development and implementation of research projects and skill-building activities that meet the global statistical community's needs.
- Build and engage a strong machine learning community by sharing resources and good practice, exchanging ideas and experiences, and keeping abreast of developments in the field.
- Offer open, shareable, and easily accessible resources to the community; and
- Facilitate machine learning capacity building for official statistics.

As machine learning revolutionises the work of national statistical organisations (NSOs), the Machine Learning Group 2021 webinar will offer insight and ideas for new research into how machine learning can be deployed in NSOs.

The webinar will provide an opportunity to learn about the progress that the Group has made this year in its different work areas, from coding and classification and satellite imagery to operationalisation and data ethics. Bringing together colleagues from across the global official statistics community, it will include contributions from senior figures in the data science divisions of various NSOs as well as discussion on the priorities for advancing the use of machine learning in official statistics in 2022.

If you have any questions about the event, please contact [sarah.phelps at ons.gov.uk](mailto:sarah.phelps@ons.gov.uk) or [ML2021 at ons.gov.uk](mailto:ML2021@ons.gov.uk)