Application of Artificial Intelligence and Machine Learning (AI / ML) in the field of Earth Sciences

The Ministry of Earth Sciences (MoES), Government of India wishes to provide an excellent opportunity for scientists/researchers to research Artificial Intelligence and Machine Learning (AI/ML) in the field of Earth Sciences. The proposal aims to develop innovative ideas and strategies to demonstrate innovative solutions to a wide range of problems utilizing the potential of AI/ML. Extended the Last date for submission of Proposal till 1 June 2020.

MoES invites project proposals from universities, research/academic institutions in the country for funding for focused research in the following areas of potential areas of AI and ML techniques:

(a) Post-processing of Numerical Weather Prediction (NWP) products
(b) Monsoon forecasting from sub-seasonal to seasonal time scales
(c) Urban flooding & Hydro-meteorological applications
(d) Prediction of extreme events- Heavy Rainfall, Heat Wave, Cold Wave
(e) Drought Prediction
(f) Thunderstorm/lightning prediction/nowcasting
(g) Agro-meteorological applications
(h) Different sectoral applications (power, tourism, health, etc)
(i) Ocean state forecasts
(j) Potential Fishing zone advisory applications
(k) Climate change projections
(l) Prediction of Fog
(m) Geosciences and Seismology
(n) Hydrology
(o) Big data analytics in the model, observed, satellite and reanalysis data
(p) Any other relevant topic related to Earth System Sciences
Key Points

- Last date for submission of Proposal: 1 June 2020.

Link: https://www.moes.gov.in/content/project-management-system

Dr. Mohammad Faiyaz Anwar
Project Scientist, Vigyan Prasar