

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>

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