

## Vigyan Samachar: MoES News

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### MoES Invites Research proposal on Artificial Intelligence and Machine Learning

Ministry of Earth Sciences (MoES), Government of India invites project proposals to promote research on Artificial Intelligence and Machine Learning (AI/ML) in the field of earth sciences. The proposals are invited from Universities against which funds will be provided to the scientists and researcher working on AI/ML to develop ideas and strategies to demonstrate innovative solutions for a wide range of problems.

Following areas of possible application of AI and ML techniques have been chosen by MoES for the proposals:

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

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