PARLIAMENT QUESTION: PLAN TO IMPROVE WEATHER FORECASTING

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The Ministry of Earth Sciences (MoES) integrating artificial intelligence (AI) and Machine Learning (ML) technologies into weather, climate, and ocean forecasting systems, apart from physics-based numerical models. This initiative is part of a broader strategy to enhance the accuracy and efficiency of meteorological predictions, which are crucial for various sectors, including agriculture, disaster management, and urban planning. The key initiatives in this regard include the establishment of a specialized virtual center at the Indian Institute of Tropical Meteorology (IITM) in Pune. This center focuses on leveraging AI and ML techniques for advancements in Earth Sciences. It has already developed several AI/ML-based applications tailored for localized predictions and the analysis of weather and climate patterns.

The India Meteorological Department (IMD) is rendering the weather forecast-based agro-advisory services to farmers under the Gramin Krishi Mausam Sewa (GKMS) project through the existing 130 Agrometeorological Field Units (AMFUs) in collaboration with the Indian Council of Agricultural Research (ICAR), State Agricultural Universities (SAUs), Indian Institute of Technology (IITs), etc. The AMFUs prepare agro-advisories for their respective districts and disseminate them through various modes, including mass media, mobile Apps, SMS, etc.

This information was given by Union Minister of State (Independent Charge) for Science & Technology and Earth Sciences, Dr. Jitendra Singh in a written reply in the Rajya Sabha today.

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