AI-Powered UP Skill Gap Dashboard

Why in News?

The **Uttar Pradesh Skill Development Mission (UPSDM)** has launched an innovative tool called the **AI-powered UP Skill Gap Dashboard** to enhance employability across the state.

Key Points

- **About:** The initiative marks the **first time AI is being used to assess** district-wise skill needs in Uttar Pradesh, aiding in the **creation of livelihood opportunities** at the local level.
- **Features:**
  - **AI and Data Analytics Integration**: The dashboard employs **advanced machine learning algorithms** and **data analytics** to analyze district-specific sectors and employment data.
    - It receives **district-wise data** for major sectors and industries, as well as **trade-specific demands** from training partners.
  - **District-Specific Skill Assessment**: The dashboard helps identify skill gaps in various districts, providing a comprehensive **skill assessment**.
    - It recommends the necessary training based on the **sector-specific growth** and **employment needs** in each district.
- **Benefits:**
  - **District-Level Skill Development**: The dashboard offers a **scientific analysis** of skill needs across districts, indicating areas that require trained manpower.
    - It helps in better allocation of **training targets** based on local requirements, improving **employability** within each district.
  - **Reduction of Attrition**: By ensuring that training is aligned with local job markets, the dashboard helps reduce **attrition** due to candidates seeking jobs outside their home districts.
  - **Involvement of Industries as Training Partners**: For the first time, industries have been involved as **training partners** in the skill development process.
    - More than **45 industries** are now actively contributing to **industry-specific training** efforts.
  - **Training Partner Evaluation**: Training partners are evaluated based on their **past performance** in training and placement.
    - The top-performing partners are allocated training targets, ensuring that **high-quality training** is provided to candidates.
  - **AI-Powered Insights for Training Target Allocation**: The dashboard uses **real-time data scraping** and **primary research** to project sector-wise **training targets**.
    - It maps the **top industries**, **job roles**, and **skill gaps** in each district, ensuring accurate and up-to-date information for training programs.
  - **Integration: The system integrates with a** Large Language Model-powered chatbot **to provide interactive support for UPSDM.**
    - The AI-based tool offers real-time assistance, guiding users through the process and answering queries related to training and employment.