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TODAY'S ANALYSIS

(20 February 2025)

TOPICS TO BE COVERED

- NAKSHA PROJECT
- AI ACTION SUMMIT: PM MODI'S KEY MESSAGE
- ECONOMIC SURVEY: CHAPTER 2
 - MONETARY & FINANCIAL SECTOR DEVELOPMENTS IN INDIA
- MCQs

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NAKSHA PROJECT

- The **National Geospatial Knowledge based Land Survey of Urban Habitations (NAKSHA)** is a **pilot project** launched by the **Union Minister of Rural Development and Agriculture & Farmers**, Government of India.
- It will be implemented in **152 Urban Local Bodies (ULBs)** across **26 states** and **3 Union Territories (UTs)** in India.
- The **NAKSHA project** was announced in **2024** as part of the **Digital India Land Records Modernization Programme (DILRMP)**.
- Its primary goal is to **enhance the management of land records in urban areas** and ensure accurate **land ownership documentation**.



- The total cost of the pilot project is estimated at **₹194 crore**, fully funded by the **Government of India**.

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WHAT IS NAKSHA PROJECT

➤ **National Geospatial Knowledge-Based Land Survey of Urban Habitation (Naksha)**, is a pilot programme of ministry of rural development's department of land resources, govt of India

➤ Union agriculture and farmers welfare minister **Shivraj Singh Chouhan** launched the project from Raisen on Tuesday



➤ The project is for **urban settlements in 152 urban local bodies across 26 states and three Union territories**

➤ Its objective is to **create and update land records in urban areas to ensure accurate and reliable documentation of land ownership**



➤ It aims to **provide citizens with simple and secure access to their land records** through modern technology & digital means



KEY OBJECTIVES

- **Creation & Update of Urban Land Records:**
 - NAKSHA aims to create and update urban land records to ensure the **accurate and reliable documentation** of land ownership.
- **Empower Citizens & Reduce Disputes:**
 - The project will help **empower citizens** by providing legal documents for land ownership.
 - It will reduce **land-related disputes** and promote transparency in land transactions.

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- **Enhance Urban Planning:**

- Updated land records will facilitate **better urban planning**, improving infrastructure and service delivery in urban and semi-urban areas.

- **Minimize Disputes & Ensure Accessibility:**

- By ensuring **accurate and easily accessible land records**, NAKSHA will help minimize land disputes and conflicts.

- **Support Sustainable Urban Development:**

- The project will provide data to help make **informed decisions** regarding land use and resource allocation for **sustainable urban growth**.

TECHNOLOGICAL INTEGRATION

- **Aerial Surveys:**

- The **Survey of India** will conduct **aerial surveys** and provide **orthorectified imagery** to state and UT governments, which will be used for accurate mapping of urban lands.

- **Web-GIS Platform:**

- The **Madhya Pradesh State Electronic Development Corporation (MPSEDC)** will develop a **Web-GIS platform** to manage digital land records efficiently.

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- **Storage Infrastructure:**

- **National Informatics Centre Services Inc. (NICSI)** will provide the required **storage infrastructure** to support the project.

- **Ground Truthing:**

- States and UTs will use aerial imagery to conduct **field surveys** and ground truthing, which will contribute to the final publication of land records.

EXPECTED OUTCOMES

- **Improved Governance:**

- The project is expected to enhance **transparency** and **efficiency** in land record management, contributing to better governance.

- **Sustainable Urban Development:**

- By enabling informed decision-making, NAKSHA will support **sustainable urban development** and improve planning processes.

- **Significance of Digitizing Land Records:**

- **Empowers Citizens:** By providing legal and accessible land ownership documents.

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- **Reduces Disputes:** Legal documentation minimizes conflicts, leading to a reduction in judicial burden.
- **Enhances Governance:** Transparency in land records promotes effective governance and urban planning.
- **Boosts Investment:** Easier access to land records makes it simpler for businesses to operate, supporting cities as **growth centers**.

ABOUT DIGITAL INDIA LAND RECORD MANAGEMENT PLAN

- **Launched:** The National Land Record Modernization Programme (NLRMP) was revamped as **DILRMP** in **2016**.
- **Type:** A **Central Sector Scheme** with 100% funding from the Government of India.
- **Key Components:**
 - **Land & Registration Computerization**
 - **Revenue Court Digitization**
 - **Aadhaar Integration (Voluntary)**
- **Extension:** The program's tenure has been extended from **2021 to 2026** for five more years.

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KEY INITIATIVES & ACHIEVEMENTS

- **Unique Land Parcel Identification Number (ULPIN) or Bhu-Aadhar**
- **BHOOMI SAMMAN**

Achievements under DILRMP:

- **95% of Records of Rights (RoR)** have been digitized.
- **68% of cadastral maps** have been digitized.
- **95% of land registrations** have been computerized.

CONCLUSION

The **NAKSHA** project is a significant initiative under the **Digital India Land Records Modernization Programme (DILRMP)**. By digitizing urban land records, it will improve **governance**, reduce land disputes, and support **sustainable urban development**. This pilot project is expected to lay the foundation for a nationwide rollout, ultimately improving transparency and making it easier for citizens and businesses to interact with the land record system.

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AI ACTION SUMMIT: PM MODI'S KEY MESSAGE

- On February 11, 2025, Prime Minister Narendra Modi co-chaired the **AI Action Summit** in Paris with French President Emmanuel Macron.
- In his speech, he talked about the **global role of Artificial Intelligence (AI)**, how India can use AI to grow its economy, and the need to focus on **sustainability** and **employment** as AI continues to develop.



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OPEN SOURCE AI & BIAS FREE MODELS

Open-Source AI Models

- **Global Context of Open-Source AI:** PM Modi called for countries around the world to work together on **open-source AI**.
- Open-source AI means that **AI tools and models** are freely available to the public.
- This allows anyone to use, change, or share them, unlike **proprietary AI**, which is controlled by large tech companies like **OpenAI** and **Google**.
- **China's DeepSeek Model:** PM Modi highlighted **China's DeepSeek**, a free and open-source AI model that is disrupting more expensive, closed models like **OpenAI's GPT-3**.
- DeepSeek has attracted global attention because of how it is freely available for use and modification.
- **Western AI Models:** Unlike DeepSeek, AI systems from the West are usually closed-source, meaning people can't use or change them.
- Some experts have raised concerns that this could cause problems with **transparency** and **bias** in these systems.

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Bias-Free AI Models

- **Bias in AI:** PM Modi pointed out the need for **AI models** that do not have any **biases**, as many models are built using data that might reflect the biases of the creators. This can lead to unfair results.
- **Indian Context:** AI models built in the West might not be suitable for India, as they may not understand the country's diverse **languages** and **cultures**.
- They might give answers that are not accurate or relevant for India.
- **Funding for Indian Models:** To address this, the Indian government is funding **AI research** that is designed specifically for India's diverse needs, including **languages** and **societal** differences.

SUSTAINABILITY IN AI: ENERGY DEMANDS & GREEN POWER

Energy Demands of AI

- **AI's High Energy Consumption:** As AI technology gets more advanced, especially with deep learning models, it will need **more computing power**.
- This will lead to an increase in **energy consumption** for **data centers**. Data centers are already responsible for **about 1% of global electricity usage**, and this will likely grow as AI continues to expand.

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- **Green Energy for AI Development:** PM Modi stressed that **AI** should be developed using **clean energy** from sources like **solar**, **wind**, or **nuclear power**, to ensure that the growing energy needs of AI do not harm the environment.

Nuclear Energy as a Solution

- **Nuclear Energy:** PM Modi suggested that **nuclear energy** could be a good solution for meeting the increasing energy demands of AI, as it is **clean** and does not add to **carbon emissions**.
- **Global Sustainability Disagreements:** His comments came when countries like the **US** and **UK** were hesitant to support the **Paris AI Summit** declaration because of disagreements over the wording about **sustainability** and **inclusivity** in AI.

Efficient AI Design

- **Optimizing AI Efficiency:** PM Modi also talked about the need for AI systems to be **more efficient**.
- AI models should use **fewer resources**, be **smaller**, and have a **lower carbon footprint**, to minimize their impact on the environment.

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IMPACT OF AI ON JOBS

- **PM Modi's Optimism:** While many people are worried that AI will **replace jobs**, PM Modi expressed **optimism**.
- He said that AI will not eliminate jobs, but rather change the way we work, making work more **productive** and **rewarding**.
- **Technological Displacement vs. Transformation:** Instead of fearing job losses, PM Modi said the focus should be on adapting to the changing world of work, where AI will **help** humans, not replace them.

SKILLING & RESKILLING FOR THE FUTURE

- **Upskilling the Workforce:** PM Modi called for **upskilling** and **re-skilling** programs to help workers learn new skills that will be needed in an **AI-powered world**.
- As AI automates certain tasks, workers must be ready for new roles.
- **National Skill Development Initiatives:** India has several programs, such as the **National Skill Development Corporation (NSDC)** and **Skill India Mission**, which help individuals gain the skills necessary to work in jobs where AI can assist them.

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CONCERNS AS PER ECONOMIC SURVEY

- **Job Uncertainty:** The **Economic Survey 2023-24** raised concerns that AI could cause **uncertainty** in India's job market, especially in **low-skill sectors** like **BPO** and **customer service**, which are at risk of being automated.
- **Vulnerable Workforce:** Many workers in **semi-skilled** and **unskilled jobs** could lose their jobs due to AI, and the government is aware of this challenge.

INSTITUTIONAL SUPPORT FOR JOB TRANSITION

- **Building Robust Institutions:** The **Economic Survey** suggested creating institutions that can help workers move into new jobs in **higher-skilled** areas, like **healthcare**, **education**, and **advanced manufacturing**, where AI can support human work rather than replace it.
- **AI-Driven Employment Creation:** Despite the risks, there is **hope** that AI will create **new job opportunities** in fields like **AI development**, **machine learning**, and **automation engineering**.

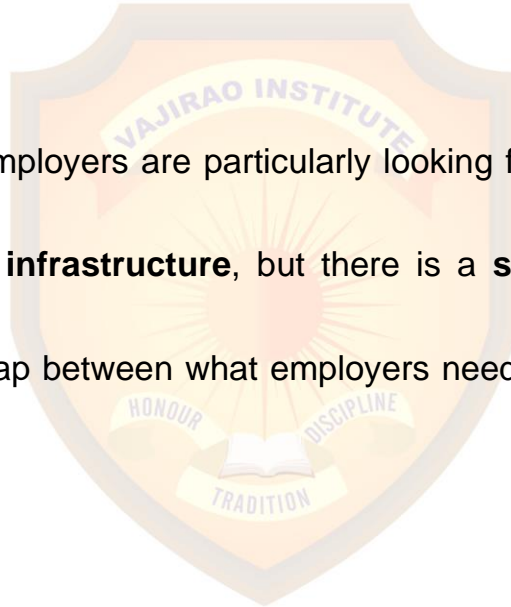
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WORKFORCE GAP IN AI SKILLS

- **AI Skill Gap in India:** A recent **QS study** found that India is facing a **skills shortage** in AI.
- While businesses are eager to hire people with AI expertise, there aren't enough qualified candidates.
- **Critical Skills Gap:** Employers are particularly looking for skills in **machine learning**, **data science**, and **AI infrastructure**, but there is a **shortage** of people with these abilities, leading to a gap between what employers need and the skills available in the workforce.



CONCLUSION

PM Modi's speech at the **AI Action Summit** laid out India's vision for the future of AI. He emphasized the need for **open-source**, **bias-free AI models** that reflect India's diverse **culture** and **languages**, and the importance of using **green energy**, especially **nuclear power**, to power AI systems sustainably.

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ECONOMIC SURVEY: CHAPTER 2 MONETARY & FINANCIAL SECTOR DEVELOPMENTS IN INDIA (PART 3)

Technological Innovations in Banking:

Historical Context: Over the past several decades, banks have consistently adapted to the latest **technological innovations** to redefine **customer interactions** (how banks **communicate and engage with customers**).

Key Milestones:

- **1960s:** Introduction of **ATMs (Automated Teller Machines)**, machines that allow customers to withdraw cash and perform other banking functions without human assistance).
- **1970s:** Introduction of **electronic card-based payments** (payments made through **debit or credit cards powered by electronic systems**).
- **2000s:** Widespread adoption of **24/7 online banking** (the ability to access banking **services at any time via the internet**).
- **2010s:** Rise of **mobile banking** (using smartphones and other mobile devices to **perform banking tasks**).

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- **Current Era:** The world is now in the **artificial intelligence (AI)-powered digital age** (an era driven by technologies like AI and machine learning) due to decreasing **data storage (storing data digitally)** and **processing costs (costs associated with computing power)**, greater **accessibility (ease of access to technology)**, and **connectivity (availability of networks that enable devices to communicate with each other)**.

Benefits of AI: These innovations can lead to higher **automation (processes carried out automatically using technology)** and often enhance **human decision-making** speed and accuracy when managed properly to mitigate **risks (the potential for loss or negative outcomes)**.

INTERNATIONAL GUIDELINES WRT AI

- **OECD Principles:** The **Organisation for Economic Cooperation and Development (OECD)** has outlined core principles governing the use of **AI**, which include:
 - **Inclusive growth (economic growth that benefits everyone),**
 - **Respect for the rule of law (ensuring laws are followed in AI use),**
 - **Transparency and explainability (being clear about how AI works and its decisions),**

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- **Robustness and safety (ensuring AI systems are strong and secure),**
- **Accountability (ensuring those who use AI are responsible for its actions).**
- **Hiroshima AI Process:** The **Hiroshima AI Process** Comprehensive Policy Framework, established in **December 2023**, includes a set of guiding principles and a **code of conduct**, marking a significant step towards a coordinated global approach for the responsible development of **AI**.

AI GOVERNANCE FRAMEWORK

- **RBI Initiatives:** Establishing a robust **AI governance** is the **first and crucial step** in addressing the challenges that come with the implementation of **AI systems** in banking.
- The **Reserve Bank of India (RBI)** has proactively engaged with **regulated entities** and **experts** to assess ongoing developments and effectively communicate its expectations through multiple engagement forums.
- **Regulatory Sandbox:** The **RBI** has created a **regulatory sandbox (a controlled environment for testing new technologies)** focusing on innovative **technology products/services**.

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- **FREE-AI Committee:** The RBI announced the establishment of a committee to create a **Framework for Responsible and Ethical Enablement of Artificial Intelligence (FREE-AI)** in the financial sector, to ensure that **AI** is used in a responsible and ethical manner.

INSOLVENCY & BANKRUPTCY CODE

- **Purpose:** The **Insolvency and Bankruptcy Code (IBC), 2016** is a comprehensive insolvency resolution framework aimed at addressing **financial distress (situations where an entity cannot meet its financial obligations)** and **NPAs**.
- **Resolution Plans:** By September 2024, **1,068 resolution plans** were approved under the Code, resulting in creditors recovering **₹3.6 lakh crore—161% of liquidation value (the amount realized from selling assets in case of liquidation)** and **86.1% of fair value (the estimated value of assets under normal market conditions)**.
- **Liquidation:** By September 2024, **79 corporate debtors (CDs)** were closed under liquidation, with claims of **₹1.4 lakh crore** and a liquidation value of **₹4,678.2 crore**, yielding **₹3,674.1 crore**.

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MCQs

1. Consider the following statements about the NAKSHA Project and mark the correct one:

1. It is co funded by the Central, State & Local Government.
2. Its primary goal is to enhance the management of land records in urban areas.

- (A) Only 1
(B) Only 2
(C) Both 1 & 2
(D) Neither 1 nor 2

Ans. (B)

2. Consider the following statements wrt Digital India Land Record Management Program (DILRMP) and mark the correct one:

1. It is a Centrally Sponsored Scheme.
2. Aadhar Integration is mandatory for the land owner.

- (A) Only 1
(B) Only 2
(C) Both 1 & 2
(D) Neither 1 nor 2

Ans. (D)

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3. Consider the following statements and mark **how many** of them are correct?

1. Open Source AI models are prone to be more biased.
2. DeepSeek is a closed source AI model.
3. Open Source AI models are freely available to the public.

- (A) Only 1 statement is correct.
- (B) Only 2 statements are correct.
- (C) All the statements are correct.
- (D) None of the statements are correct.

Ans. (A)

4. Which of the following entity have launched Framework for Responsible and Ethical

Enablement of Artificial Intelligence (FREE-AI)?

- (A) OECD
- (B) Ministry of Science & Tech, Gol.
- (C) AI Action Summit
- (D) RBI

Ans. (D)

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