

## **ISRO : SCIENCE & TECHNOLOGY**

**NEWS :** A look into ongoing space mission

## WHAT'S IN THE NEWS ?

## ISRO Milestones (2023-2024):

- Aditya L1:
  - Launched: September 2, 2023.
  - Objective: Study the Sun from the Earth-Sun Lagrange point (L1).
  - Milestones: Reached L1 on January 6, 2024; observed a solar storm in May 2024; began first L1 orbit on July 2, 2024.
- Gaganyaan:
  - First abort mission: October 21, 2023.
  - Achievements: Successful test of Crew Escape System; crew module recovery by INS Shakthi.
- XPoSat:
  - Launched: January 1, 2024.
  - Objective: Study X-ray polarisation from celestial objects.
  - Instruments: XSPECT and POLIX began operations in January 2024.
- INSAT-3DS:
  - Launched: February 17, 2024, by GSLV.
  - Purpose: Enhance weather forecasting and climate monitoring.
  - Significance: Validates GSLV performance ahead of the NASA-ISRO NISAR mission.



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- Reusable Launch Vehicle-Technology Demonstrator (RLV-TD):
  - Landing experiments (LEX-02 and LEX-03): Conducted on March 22 and June 7, 2024.
  - Achievements: Successful landing dynamics tests, supporting ISRO's reusable space vehicle plans.
- Small Satellite Launch Vehicle (SSLV):
  - Third flight: August 16, 2023.
  - Success: Placed EOS-08 and SR-0 Demosat into orbit, confirming SSLV's readiness for commercial use.
- NewSpace India Ltd. (NSIL):
  - Activities: Handled commercial satellite launches; partnered with SpaceX and Australian companies for satellite launches.
  - Key Missions: GSAT-20/GSAT-N2 launch by SpaceX; involvement in public-private partnerships for satellite data activities.

Source : <u>https://epaper.thehindu.com/ccidist-</u> ws/th/th\_delhi/issues/96315/OPS/G0BD7VVAJ.1+GT1D811A4.1.html



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