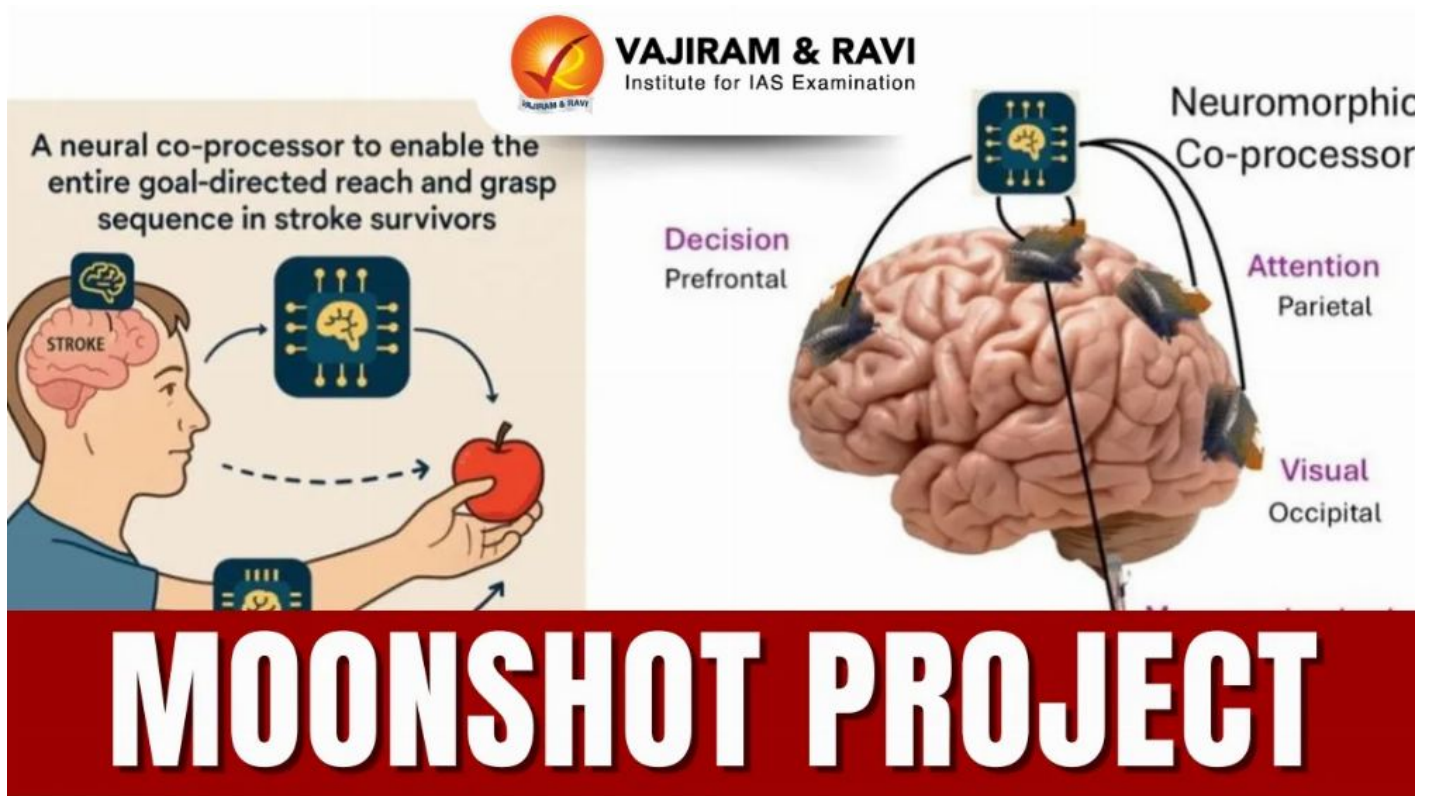


Moonshot Project

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Moonshot Project Latest News

Recently, the Indian Institute of Science (IISc) launched a moonshot project.

About Moonshot Project

- It is to **develop brain co-processors** that combine neuromorphic hardware and AI algorithms to enhance or restore brain function.
 - **Brain co-processors are an emerging technology** aimed at enhancing the human brain's natural abilities in ways relevant to real-life situations.
- The project aims **to build an AI-powered, closed-loop device** that connects to different parts of the brain in order to help **restore smooth, coordinated movement**.
- It is a multidisciplinary endeavour that evolved from a pilot project seeded by **IISc's Brain, Computation and Data Science initiative**.
- It is **funded by the Pratiksha Trust**.

- **Objective:** To develop **both implantable and non-invasive brain co-processors** that can decode brain **activity from neural recordings**, process it with an **AI algorithm**, and re-encode signals back into the **brain via neural stimulation or neurofeedback**.
 - It will lay the foundation for a first-of-its-kind brain co-processor that **restores complex sensorimotor function after stroke**.
- **Significance:** The co-processors will be **deployed towards cognitive rehabilitation** of stroke survivors, to restore critical functions such as goal-directed reach and grasp abilities.

Source: TH

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