

Dharini

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About Dharini:

- It is now the largest **publicly accessible digital dataset of the human foetal brain** and is freely available to researchers worldwide.
- The dataset provides **detailed insights into brain development** from the second trimester of a foetus and researchers have identified over 500 brain regions, making it a complete atlas of the human brain.
- It is created with less than one-tenth of the initial funds that powered **the Allen Brain Atlas**, and with a technology platform that was entirely custom made in India.
- The dataset offers key applications, including advancements in fetal imaging technology for early diagnosis and treatment of developmental disorders.
- It also serves as an invaluable resource for researchers aiming to understand **neuro developmental processes and conditions**.
- The project was supported by the Office of the Principal Scientific Adviser to the Government of India and private entities.
- **Significance**
 - It could offer new insights into neonatal brain health and help improve early **diagnosis and treatment**.

- The dataset is available to all researchers and can help in the development of treatments for **brain-related health conditions**.
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Q1: What is a fetus?

It is the unborn young of any vertebrate animal, particularly of a mammal, after it has attained the basic form and structure typical of its kind.

News: IIT-Madras releases highly detailed 3D images of foetal brain

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