



Humanoid Skull for Gaganyaan Mission

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Recently, the [Indian Space Research Organisation's \(ISRO\)](#) Thiruvananthapuram unit has finalised the design of the **skull** for the humanoid on [the Gaganyaan mission](#).

- It weighs **800 grams** and measures **200 mm x 220 mm**. It is made from a **high-strength aluminium alloy that can** endure pressure and vibration.
- Before launching astronauts for the Gaganyaan mission in 2025, ISRO will send a humanoid robot, [Vyommitra](#), into space to test **spacecraft safety**.
- Vyommitra will resemble the **upper human body**, featuring **movable arms, face, and neck** equipped with sensors to perform human-like functions and assess the impacts of space travel.

Gaganyaan Mission: It will carry **three Indian astronauts** into space, **about 400 km** from the Earth's surface, for **three days**.

- Indian Air Force pilots **Prasanth Balakrishnan Nair, Ajit Krishnan, Angad Pratap and Shubhanshu Shukla** have been selected for the Gaganyaan mission.
- **Shubhanshu Shukla** has been shortlisted for a joint **ISRO-NASA space flight** in 2025 which will take him to the [International Space Station](#).

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