



#CompulsoryPeaceICTsEdu | Campaign #8

ICTs, AI, & Space Tech for Girls

International Girls in ICT Day 2026: "AI for Development: Girls Shaping the Digital Future"



Dr. Muthayya Vanitha

An Indian electronics system engineer who has led projects on satellites at the Indian Space Research Organization. She was the project director of the Chandrayaan-2 lunar mission of the ISRO

Presentation by Sharmila Devi RK



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Self Introduction:

I am Sharmila Devi R, a dedicated second-year student in the Electronics and Communication Engineering (ECE) department at Dr. MGR Educational and Research Institute, located in Chennai. I am passionate about technology, innovation, and solving real-world problems through engineering.

I actively participate in Sustainable Development Goal (SDG) initiatives, especially focusing on gender equality. I have presented and taken part in several programs, including SDG Youth Pitch events and inter-college SDG competitions, where I shared my ideas and future goals. These experiences have enhanced my confidence, communication, and leadership skills. I am a hardworking and determined individual, eager to learn and grow, with the aim of building a successful career while contributing positively to society.

Why I Chose Dr. Muthayya Vanitha:

- Deeply motivated by her journey
- Inspired by a Tamil Nadu woman leading a Moon mission
- Realized determination makes any dream possible
- Had a strong “Aha!” moment
- Felt proud and eager to learn more

Unseen Heroes behind Lunar Missions
MUTHAYYA VANITHA



Muthayya Vanitha is an Indian electronics system engineer who has led projects on satellites at the Indian Space Research Organization. She was the project director of the Chandrayaan-2 lunar mission of the ISRO. Known for her leadership and organizational skills, M. Vanitha has been instrumental in managing complex projects and ensuring smooth operations within ISRO's various departments

Background:

From Tamil Nadu to ISRO:

Dr. Muthayya Vanitha was born in Tamil Nadu and became an electronics and communication engineer. She joined ISRO, which is the Indian Space Research Organisation, and worked on many satellite projects. Over the years, she built deep knowledge in handling complex space systems and gained a reputation as a skilled



Career Growth:

Expertise in Space Systems Development :

Muthayya Vanitha began her career at Indian Space Research Organisation as an electronics engineer

Worked on satellite communication and data handling systems

Gained strong expertise in space technology

Contributed to several important ISRO missions

Grew into leadership roles through dedication and hard work

Became Project Director of Chandrayaan-2

Her journey reflects perseverance and excellence in space technology



Struggles & Resilience :

Challenges in a Male-Dominated Field :

- Faced challenges in a male-dominated field
- Worked under extreme pressure, tight deadlines, and high expectations
- Stayed focused and never gave up
- Proved her capability through hard work and consistency
- Showed confidence and resilience
- Achieved great success despite challenges



Major Accomplishments :

Leadership in Space Missions :

Became Project Director of Chandrayaan-2

One of the first women to lead a major space mission in India

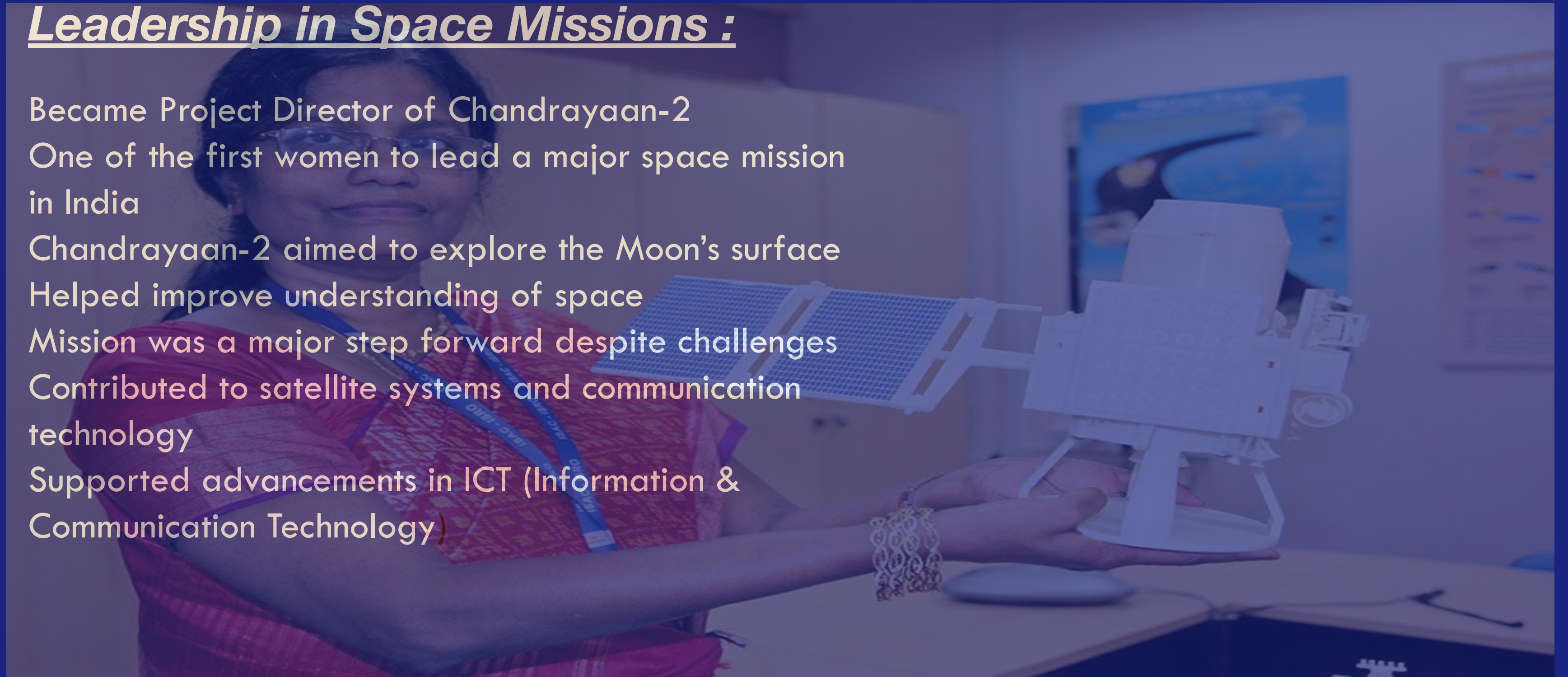
Chandrayaan-2 aimed to explore the Moon's surface

Helped improve understanding of space

Mission was a major step forward despite challenges

Contributed to satellite systems and communication technology

Supported advancements in ICT (Information & Communication Technology)



Impact on Society:

Transforming Lives Through Technology:

Improved space-based technologies used in daily life impacted communication, weather forecasting, and navigation systems
Inspired thousands of students, especially girls
Encouraged careers in science and technology
Proved leadership and innovation are not limited by gender



Legacy & Future :

Dr. Muthayya Vanitha's , Enduring Impact :

- Contributed to the foundation for future missions like Chandrayaan-3
- Supported growth in India's space exploration and digital technology
- Played a key role in advancing future space projects
- A role model for the next generation
- Inspires young innovators and scientists

Personal Vision :

Lessons Learned and Future Goals :

- From her life, I learned one powerful lesson: never underestimate your potential. No matter where we come from, we can achieve great things with dedication and hard work.
- In the future, I also want to contribute to science and technology and make a positive impact on society, just like her.

Key Message :

Inspiration from Dr. Muthayya Vanitha :

Dr. Muthayya Vanitha exemplifies **resilience and innovation** in the ICT field, inspiring future generations to pursue careers in technology and space exploration, fostering a culture of excellence.





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Presented by :

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Thank you for your time and attention. Have a great day.

