



AstraX'22



SPACEONOVA  
WHERE LIMIT TENDS TO INFINITY

# AI

## With Space Applications

April 30 | 03:00  
& to  
May 1 | 04:30



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# WHY

## AI WITH SPACE

## APPLICATION WORKSHOP

AI HAS PROVEN ITS GREAT POTENTIAL AND IS A GAME-CHANGER IN SPACE EXPLORATION. IT CAN BE UTILIZED IN A NUMBER OF WAYS, LIKE IDENTIFYING GALAXIES, BLACKHOLES AS WELL AS IN COMMUNICATION, AUTONOMOUS STARCRAFT NAVIGATION AND MUCH MORE.

THE AI WITH SPACE APPLICATIONS WORKSHOP AIMS TO INTRODUCE STUDENTS TO THE FIELD OF AI AND THE ESSENTIAL SKILLS REQUIRED TO ENABLE THEM TO CONDUCT INDEPENDENT RESEARCH WHILE ALSO PROVIDING THEM WITH PRACTICAL EXPERIENCE WITH SPACE APPLICATIONS.

AT SPACEONOVA, WE HAVE DESIGNED THE APPLICATION TO MAKE IT SIMPLE FOR ENTHUSIASTS TO STUDY AND DO RESEARCH IN THE SUBJECT OF ARTIFICIAL INTELLIGENCE AND ITS VARIOUS SPACE APPLICATIONS.

# WORKSHOP

## PLAN



### **Introduction to Artificial Intelligence**

- What is Artificial Intelligence
- What are the components of Artificial Intelligence
- Role of Machine Learning in AI
- Applications of AI in Space
- Career Opportunities



### **Space Applications**

- Object Detection
- Rapidly Exploring Random Trees
- Demo of A\* mapping, object detection and path following

# KNOW YOUR INSTRUCTOR

## DR SHREYA SANTRA

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