



विज्ञान एवं  
प्रौद्योगिकी मंत्रालय  
MINISTRY OF  
SCIENCE AND  
TECHNOLOGY

सत्यमेव जयते



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National Mission on  
**Interdisciplinary Cyber-Physical  
Systems (NM-ICPS)**



DEPARTMENT OF  
SCIENCE & TECHNOLOGY  
Ministry of Science and Technology  
Government of India

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[www.nmicps.in](http://www.nmicps.in)

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# TECHNOLOGY INNOVATION HUB - IHUB DRISHTI FOUNDATION

IIT Jodhpur

Theme: Defence



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## Hub Overview:

The TIH on Computer Vision and Augmented and Virtual Reality (CV and ARVR), named as iHub Drishti Foundation focuses on the core research areas of Seeing and Sensing, Dependability, Real-time Computer Vision Systems, and Data Collection, Curation, and Annotation. iHub Drishti has identified the following application areas for developing technologies: Computer Vision for Autonomous Systems; Computer Vision for Better Living: Healthcare and Biosphere; Imaging for Document Analysis; CV and VR for Industry 4.0; Dependable AR-VR for X (including games).

### Project Updates :

#### History Tale AR: Reviving History by Paintings

A cutting-edge Augmented Reality (AR) application prototype has been developed, focused on reviving ancient stories and legends through ancient painting scanning. By blending historical narratives with interactive digital experiences, the project aims to create an engaging platform for users interested in exploring and learning about ancient stories. The technology developed is at TRL-6. The key feature includes development of technological novel pipeline for the optimization of 3D content to make it compatible with AR devices.

#### Hub for Radiogenomics Research and Service

A Radio-genomics research hub has been created within iHub Drishti Foundation that collects and curates' Indian patients' radio-genomics data. The radio-genomics research hub will further carry out research in novel artificial intelligence (AI) and computer vision (CV) based learning models over this data to predict disease diagnosis and prognosis for patient treatment as part of the precision medicine workflow.



Fig: Searchable Radiogenomics Data Portal Developed by iHub Drishti.

### Startup:

#### Unicorniz Innovations Pvt. Ltd.

The Start-up has developed a cutting-edge XR technology solution that offers immersive experiences to drive positive change in rural areas. It is designed to cater to the specific needs and requirements of various sectors and industries, including education and gaming. By leveraging virtual and augmented reality, it creates engaging and customizable solutions that empower rural communities. The product would be deployed to provide immersive experience of Cellular Jail.





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