

Hello World.. I'm Vamsi.

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Context:

- Design of #AnyAngle
- •Design of #infinetyView



#AnyAngle: intro...

- AnyAngle model consists of a 360degree camera at the center of ceiling of a room surrounded with 4 concave lenses which zooms the images reflected by the convex mirrors along the 4 sides of the walls.
- Enchancing the ability to record the video at almost every angle i.e Front, Back, Left, Reight & Top veiws unlike the tradetional CC-cameras/360degree camers.
- <u>Note</u>:We can also make a **sigle camera rotate** insted of a 360degree camera



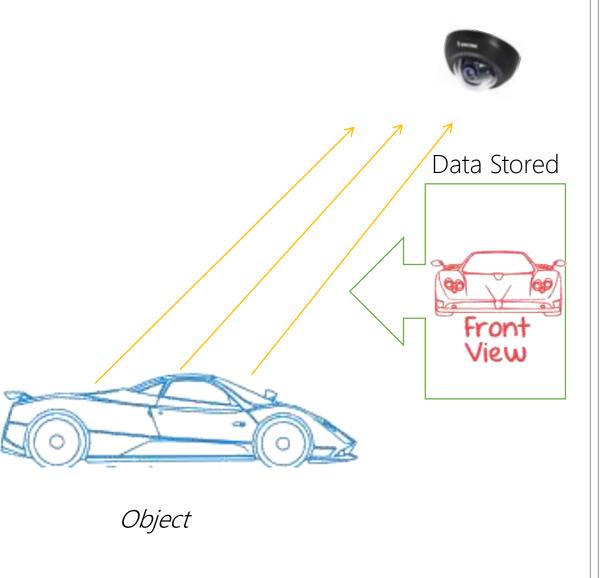
#AnyAngle: Use cases

AnyAngle can bring significante changes in the feilds like

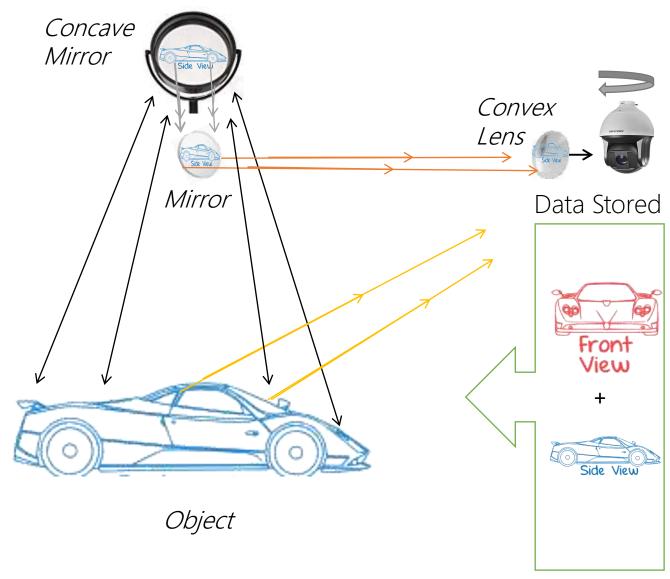
- <u>Criminal tracking</u>: The identity of a criminal wearing a hoodie cannot be known in case of tracitional CC-camears but with help of **Any**Angle he/she can be caught by watching the Back view of that scean.
- <u>Machine Learning</u>: Training a ML model requires a lots of data where **Any**Angle will become handy. Esspecially in case building an Al for Face Recognition.
- Saves Electricity, Data Storage.
- And many more..



<u>Traditional CC-camera:</u>



#SampleModel



#AnyAngle: Model





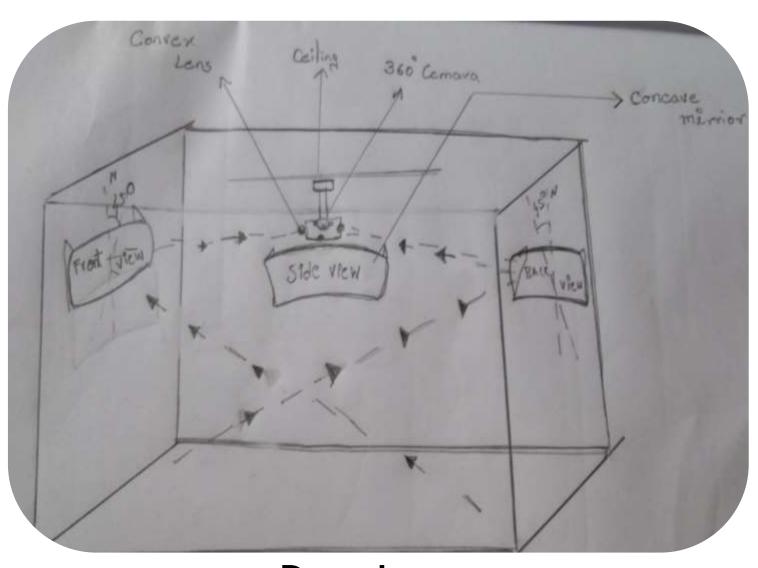
360degree Camera..





Convex lens

A typical concave mirror..

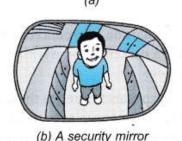


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#AnyAngle: Working

- First the image will be captured by the mirrors
- And then reflects that image at an angle of 45degrees wtr mirror
- Then the convex lens recives & magnifies that reflected image.
- Finally its will be captured by the Camera lens.
- here the distance between the mirror & the lens depends upon the area of the room..!!



#AnyAngle: Sampel output



Front View...





Back View..

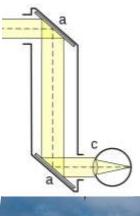


Side View..



#infinetyView

- infinetyView allows the camera to capture the image/vedio beyond the room at which a camera is placed..!!
- The princepal used in this is identical to the methodoligy of the "PeriScope".
- Initially every mirror must be in an angle of 45 degrees wrt to the plane.
- One can use this technique to get only side view of a sean..







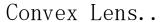
#infinetyView:Use Cases



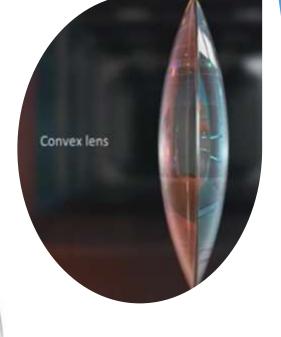
- Saves a Lot of Elictricity
- Saves Storage of unnecessary Data.
- Cheap
- infinetyView allows users to relay on them, incase a camera cannot be place at a region due to lack of connectivity of Eletric current or any other reasons.
- image/Video can be captured at multiple areas with only 1 camera..!!

#infinetyView: Model

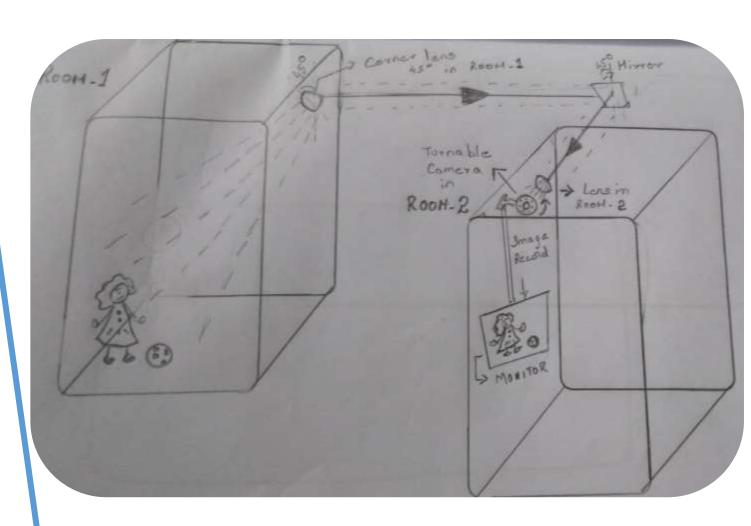




HIKVISION



Turnable Camera..



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Thankyou for watching..!! (00)