Module 2 – Cameras and Sensors - Overview

We learned about the fascinating world of **“Cameras and Sensors**” used in computer vision. I learned about the different types of cameras such as RGB, depth, thermal, and stereo cameras, and gained an understanding of their specs, uses, and benefits. We also looked at key specs like resolution, frame rate, and field of view, and how they affect performance. Also, I explored sensors like LiDAR and radar and their roles in various applications. Finally, we emphasized the importance of camera calibration and setup to capture accurate data, giving a full picture of their use and optimization in different industries. Below are some key points of things I learned during this module:

* **Types of Cameras**: RGB cameras, depth cameras, thermal cameras, and stereo cameras. And their specifications, uses, and benefits of each camera type.
* **Key Camera Specifications**: Resolution, frame rate, and field of view and how these specifications impact camera performance.
* **Sensors in Computer Vision**: Roles and applications of LiDAR and radar sensors.
* **Camera Calibration and Setup**: Importance of proper calibration for accurate data capture. And optimization techniques for different industry applications.