

S.No	Application	Application domain	Complex problem identified	Justification
1	Autonomous vehicles	Transportation	Sensor fusion, decision - making	Improved safety, reduce accidents, increased mobility for disabled
2	Facial recognising systems	Security and surveillance	Face detection, feature extraction under different poses and lights	Improved security and identity verification , enhanced user experience
3	CT Scanners	Diagnostic imaging	X-ray physics ,image reconstruction	Accurate imaging for medical purposes , minimizes radiation exposure
4	Biometric authentication	Security and Access control	Biometric detection and identification in different positions	Improved privacy and security,Helped in recognition of user