Kulkit Bhargi (596) - II

P.E.A.S => Performance, Environment, Actuators, Sensor.

1. Medical Diagonistic System :-

- Performance: System's ability to accurately diagnose medical conditions or predict outcomes based on input data, such as symptoms, patient history and diagonistic tests.
Performance metric may include sensitivity, specificity accuracy and predictive value.

- Environment: Medical settings in which sys loam. includes hospitals, clinics or remote healthcare facilities.
Factor such as available resources, patient demographics, and healthcare regulations may come under;

- Actuator: This includes recommending treatments, ordering further diagnostic tests, refferring patients to specialists, etc.

- Sensors: The inputs to the System, including patient symbols, medical history, laboratory test results and other data used for diagonistic purposes.

2. Face - Biometric Systems

↳ Performance: This refers to the accuracy and speed of system in recognizing and verifying individuals

based on their facial features.

- Environment: This includes physical surroundings where the system will be deployed, as well as any potential challenges like varying lighting conditions or the presence of facial obstructions, eg: (glasses, facial hair etc.

- Actuators: These are the components responsible for taking actions based on system's analysis, such as unlocking a door, or granting access to a secure area.

- Sensors: These are the cameras or the other devices that capture facial images & biometric data.

③ Self Car driving:

- Performance: safe, efficient navigation while adhering traffic laws and adapting to changing conditions.

- Environmental: Varied surrounding → including roads, traffic, weather and pedestrians.

- Actuators: controls for steering, breaking and acceleration to interact with the environment.

- Sensors: cameras, lidar, radar, GPS and more for real time gathering on surroundings.