

SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)
COIMBATORE-35

Accredited by NBA-AICTE and Accredited by NAAC – UGC with A++ Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

19EET401 / AI TECHNIQUES IN ELECTRICAL ENGINEERING

UNIT V: AI APPLICATIONS

Topic: AI TECHNIQUES IN SELF DRIVING CARS





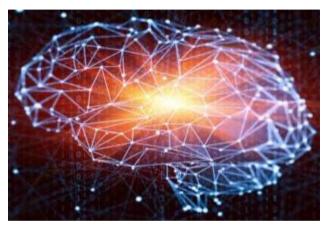


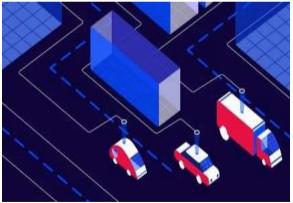




TOPIC OUTLINE





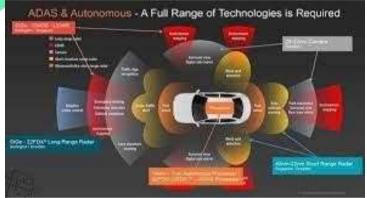


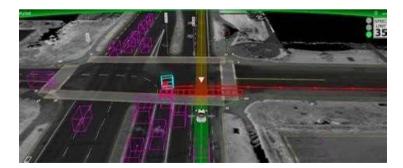
Techniques?
An comparison?
Eco system
Industries in EV
Patent rights?
Pros and cons



AI TECHNIQUES in SELF DRIVING CARS







Object identification



Vehicle tracking system

Uses deep learning algorithm



COMPARISON



Autonomous car data vs. human data

In 2020, the average autonomous car may process 4,000 gigabytes of data per day, while the average internet user will process 1.5 gigabytes. That means...

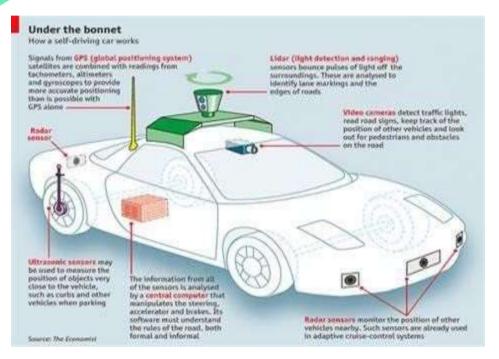


Source: Intel Mashable



PHYSICAL ECOSYSTEM OF AN AUTONOMOUS VEHICLE





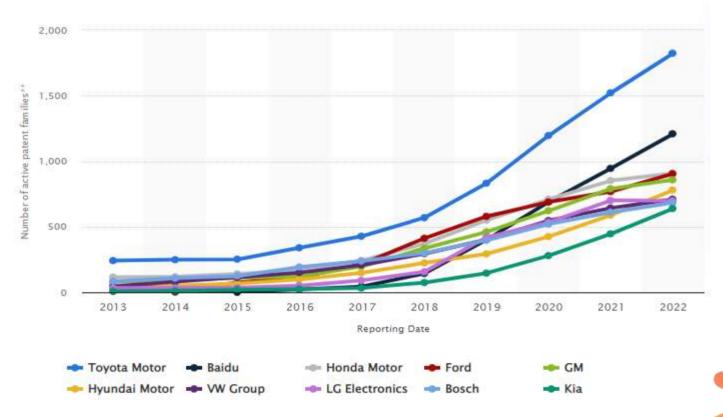
- Global Positioning System (GPS)
- Light Detection and Ranging (LIDAR)
- Cameras (Video)
- Ultrasonic Sensors
- Central Computer
- Radar Sensors
- Dedicated Short-Range

Communications-Based Receiver





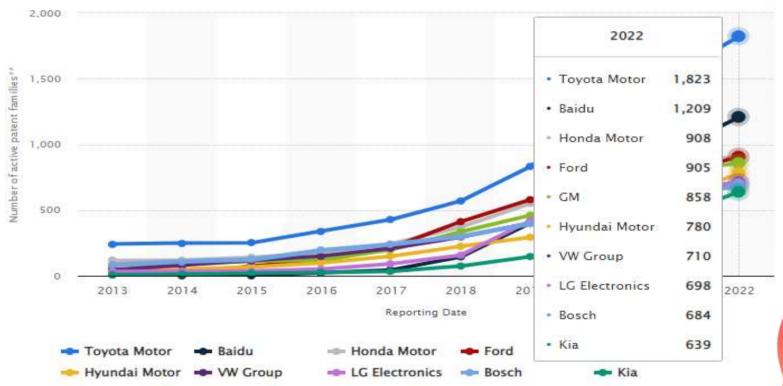






















Unemployment

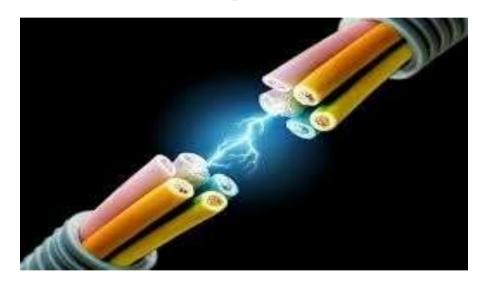


Lazy





RECAP....



....THANK YOU

