

Welcome to

INTERNSHIP STUDIO

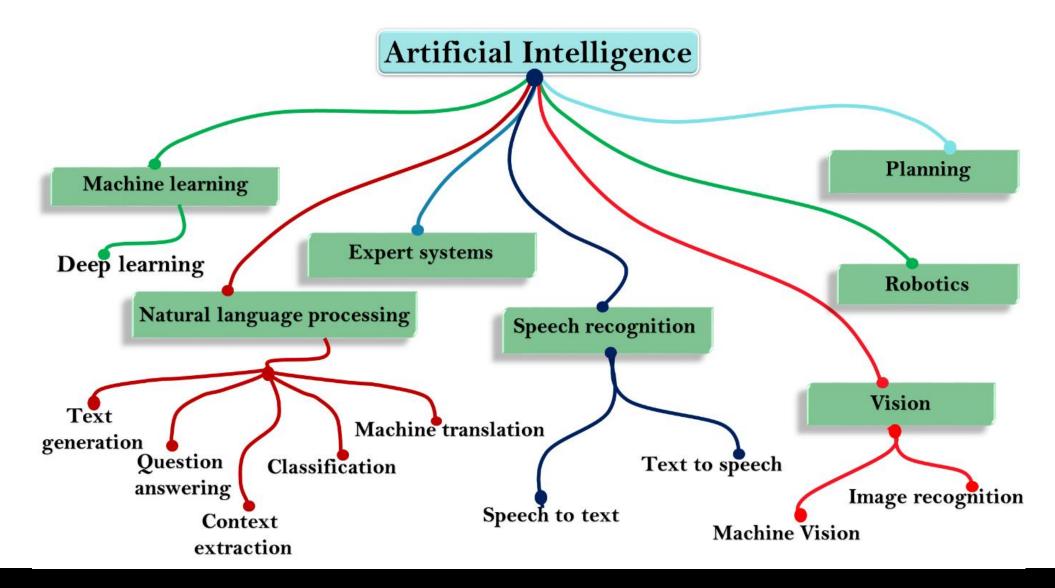
Module 01 | Lesson 02

Applications and examples of Al



AI and its subfields





Applications: Face Recognition





Applications: Face Recognition

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Face Detection

Feature Extraction

System Training

Classification

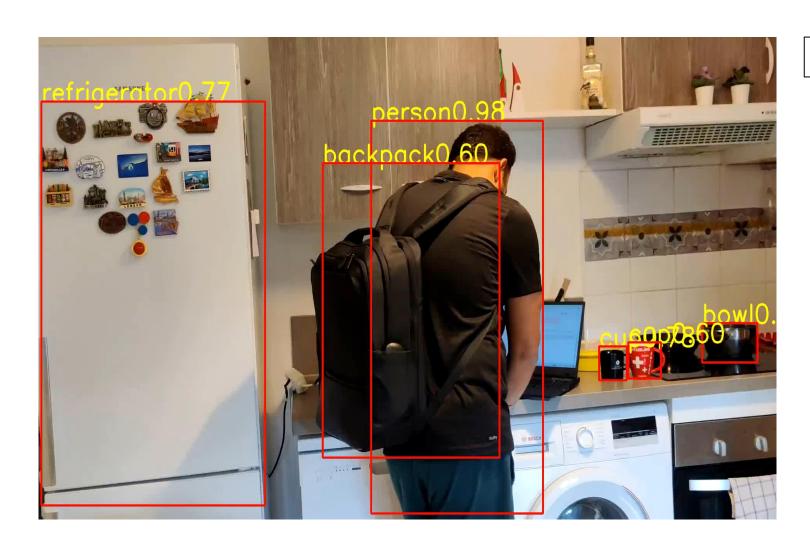






Applications: Object Detection and Tracking





Behind the Scenes

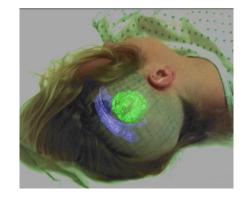
- ☐ Object Detection
 - ☐ For the given image, it generates the prediction with bounding boxes and probability value.
 - ☐ It's a supervised machine learning algorithm
 - ☐ Algorithm Name: Faster RCNN



Applications: Medicine

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Image guided surgery



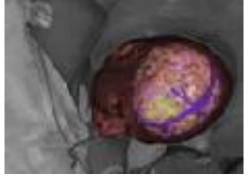
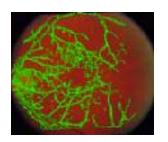


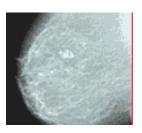
Image analysis and enhancement











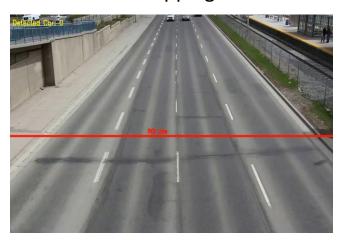
Applications: Fruit, Flower and Car Counting





Behind the Scenes

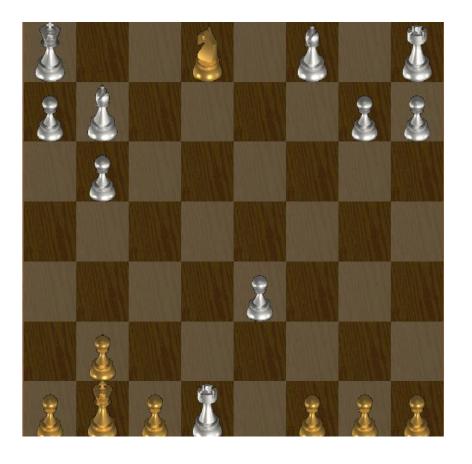
- ☐ It works on top of object detection.
- □ Camera should be moving and object should be fixed.
- ☐ It works with the Horizontal and vertical Axis.
- □Can be extended to count the cars in the parking lot, traffic flow on any signal for the traffic management, people count to find the footfall in the shopping mall etc.



Applications: Games

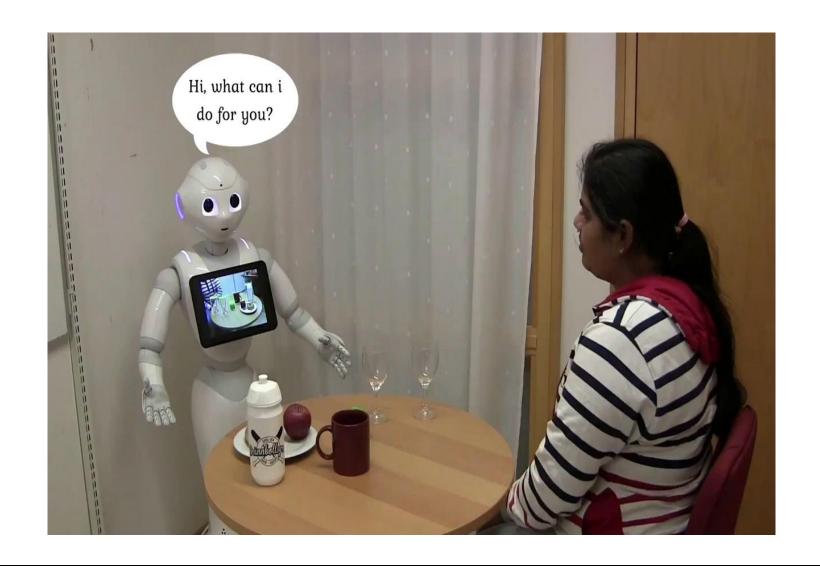






Applications: Robotics Interaction





Applications: Other application areas:



- Bioinformatics:
 - Gene expression data analysis
 - Prediction of protein structure
- Text classification, document sorting:
 - ❖ Web pages, e-mails
 - Articles in the news
- Video, image classification
- Music composition, picture drawing
- Natural Language Processing.
- Perception.