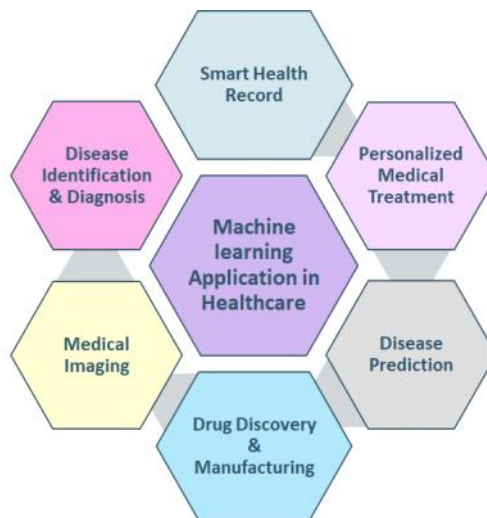


Superb Dancing Skill By Our Prime Minister | #Narendra Modi's Dance #Garba dance
Suraksha Ashish

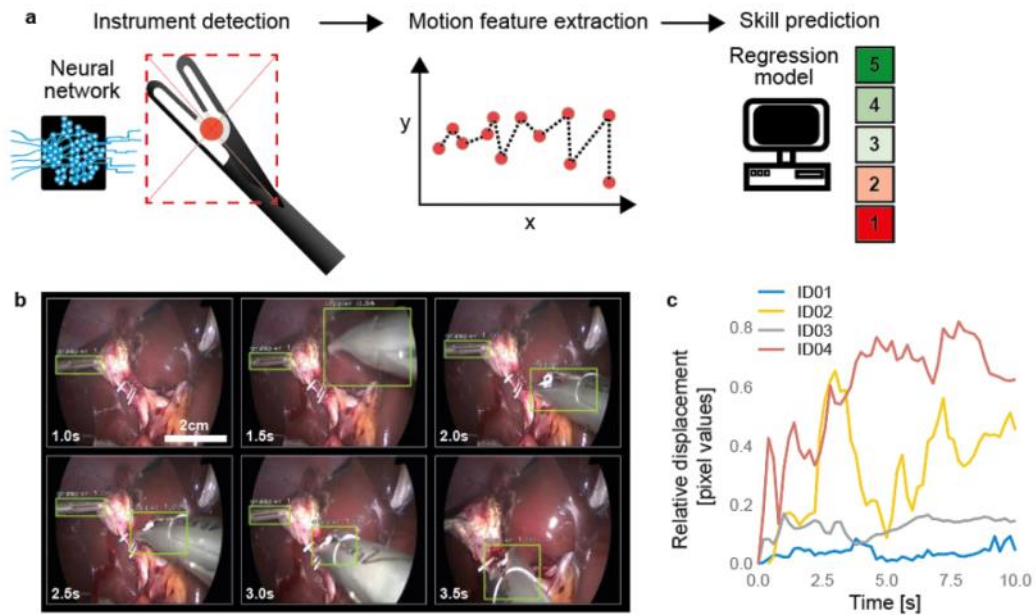


Applications of Neural Networks :-

① Healthcare :-



⇒ Surgical Skill Assessment using deep neural networks :-



[1]. Lavanchy, J.L., Zindel, J., Kirtac, K. *et al.* Automation of surgical skill assessment using a three-stage machine learning algorithm. *Sci Rep* 11, 5197 (2021).

⇒ Identification of COVID-19 using CT-scans :-

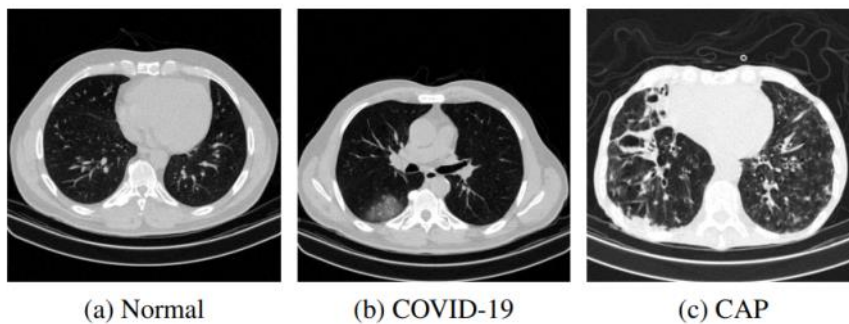


Fig. 1: Segmented slice images from three example CT volumes of a) normal, b) COVID-19, c) CAP patients

[2]. S. Chaudhary, S. Sadbhawna, V. Jakhethiya, B. N. Subudhi, U. Baid and S. C. Guntuku, "Detecting Covid-19 and Community Acquired Pneumonia Using Chest CT Scan Images With Deep Learning," *ICASSP 2021 - 2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Toronto, ON, Canada, 2021, pp. 8583-8587.

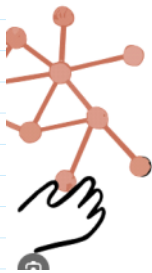
② Natural Language Processing :-

Natural Language Processing



ChatGPT

⇒ Anthropic Claude



Claude



⇒ Google Gemini

The Gemini logo features a large, multi-colored 'G' (red, yellow, green, blue) followed by the word 'Gemini' in a blue sans-serif font. A small, four-pointed star is positioned above the 'i'.

⇒ Microsoft Copilot



⇒

The Perplexity logo consists of a teal-colored geometric icon resembling a stylized star or a network of lines, followed by the word 'perplexity' in a dark teal, lowercase sans-serif font.

⇒ Inflection AI

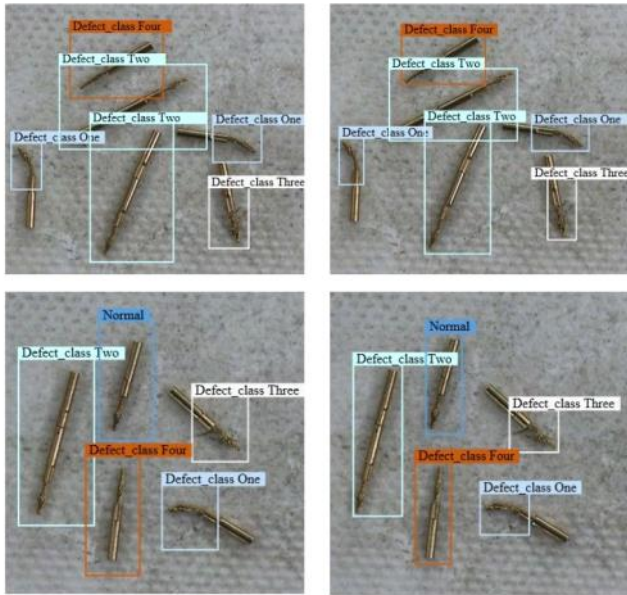


⇒ LLAMA-3



③ Computer Vision :-

⇒ defect part detection in manufacturing



Visual inspection for defect part detection in manufacturing

⇒ Agriculture
Plant disease detection



3 erosomyia_sp	
3 erosomyia_sp	93%
2 erosomyia_sp	4%
2 procontarinia_rubus	1%

3 erosomyia_sp	
3 erosomyia_sp	97%
2 erosomyia_sp	2%
3 apoderus_javanicus	0%

2 ischnaspis_longirostris	
2 ischnaspis_longirostris	99%
1 ischnaspis_longirostris	0%
3 erosomyia_sp	0%

1 apoderus_javanicus	
1 apoderus_javanicus	99%
2 apoderus_javanicus	1%
3 apoderus_javanicus	0%

Animal Monitoring System.



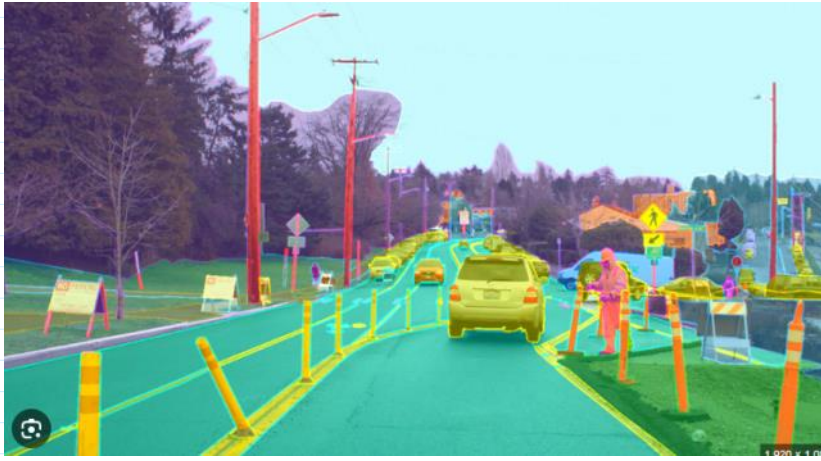
⇒ Autonomous Driving :-



Object detection



Semantic Segmentation

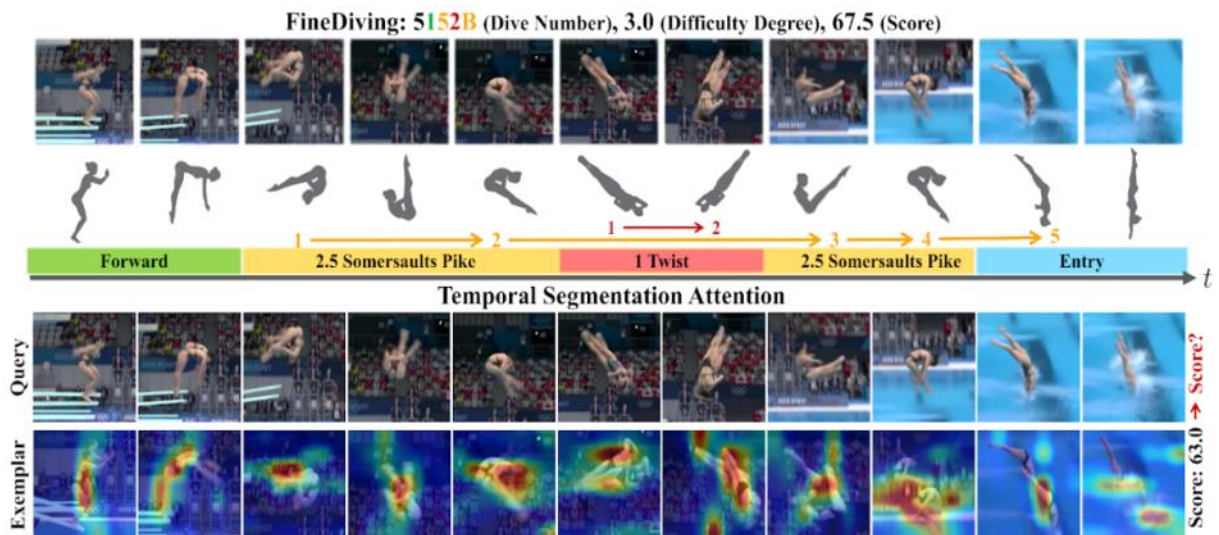


④ Sports :-

pose estimation :-



Diving Quality Assessment :-



[3]. J. Xu, Y. Rao, X. Yu, G. Chen, J. Zhou and J. Lu, "FineDiving: A Fine-grained Dataset for Procedure-aware Action Quality Assessment," *2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, New Orleans, LA, USA, 2022, pp. 2939-2948

