

## Supplementary resources (Video Understanding):

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### What is Machine Learning:

1. Data Mining Book - Farsi → <https://chistio.ir/category/books/>
2. Free Machine Learning Basic Mini Course → <https://hamrah.academy/course/131>
3. Chistio → <https://chistio.ir/>
4. Machine Learning Basic Course with Python → <https://www.youtube.com/watch?v=gmvvaobm7eQ&list=PLeo1K3hjS3uvCeTYTeyfe0-rN5r8zn9rw>

### Deep Learning:

1. Deep Learning with Tensorflow Basics → [https://www.youtube.com/watch?v=Mubj\\_fqiAv8&list=PLeo1K3hjS3uu7CxAacxVndI4bE\\_o3BDtO](https://www.youtube.com/watch?v=Mubj_fqiAv8&list=PLeo1K3hjS3uu7CxAacxVndI4bE_o3BDtO)
2. Deep Learning with PyTorch Basics → [https://www.youtube.com/watch?v=V\\_xro1bcAuA](https://www.youtube.com/watch?v=V_xro1bcAuA)
3. Deep Learning with PyTorch → <https://www.youtube.com/watch?v=EMXfZB8FVUA&list=PLqnsIRFeH2UrcDBWF5mfPGpqQDSt a6VK4>

### Convolutional Neural Networks:

1. CNN Course → [https://www.youtube.com/watch?v=ArPaAX\\_PhIs&list=PLkDaE6sCZn6GI29AoE31iwdVwSG-KnDzF](https://www.youtube.com/watch?v=ArPaAX_PhIs&list=PLkDaE6sCZn6GI29AoE31iwdVwSG-KnDzF)

## Recurrent Neural Networks:

2. RNN Course →

[https://www.youtube.com/watch?v=Q8ys8YnDRXM&list=PL1w8k37X\\_6L\\_s4ncq-swTBvKDWnRSrinl](https://www.youtube.com/watch?v=Q8ys8YnDRXM&list=PL1w8k37X_6L_s4ncq-swTBvKDWnRSrinl)

## 3D Convolutional Neural Networks and Recurrent Neural Networks for Video Understanding:

1. 3D CNN Course → <https://www.youtube.com/watch?v=c01fnkC2u2c>

2. CNN in Video Understanding → <https://www.youtube.com/watch?v=xRLeLQV8kL8>

3. Action Recognition part 1 → <https://www.youtube.com/watch?v=ecbeIRVqD7g&t=61s>

4. Action Recognition part 2 → [https://www.youtube.com/watch?v=dYVmeJFA\\_IA&t=3s](https://www.youtube.com/watch?v=dYVmeJFA_IA&t=3s)

5. Video Classification pyTorch →

[https://www.youtube.com/watch?v=QdbzW\\_shsS4&list=PLtGXgNsNHqPRAscIi6dMUuPCfDQ1Vho2U](https://www.youtube.com/watch?v=QdbzW_shsS4&list=PLtGXgNsNHqPRAscIi6dMUuPCfDQ1Vho2U)

6. Sport Video Classification →

[https://www.youtube.com/watch?v=BIlyHIq5SsQ&list=PLxefhmF0pcPI\\_v-ILsqF3drP6NOoSYJR0](https://www.youtube.com/watch?v=BIlyHIq5SsQ&list=PLxefhmF0pcPI_v-ILsqF3drP6NOoSYJR0)

### Other Resources and Slide References:

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6. <https://arxiv.org/abs/2003.13042>
7. [https://openaccess.thecvf.com/content\\_cvpr\\_2018/html/Wang\\_Non-Local\\_Neural\\_Networks\\_CVPR\\_2018\\_paper.html](https://openaccess.thecvf.com/content_cvpr_2018/html/Wang_Non-Local_Neural_Networks_CVPR_2018_paper.html)
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11. [https://openaccess.thecvf.com/content\\_CVPR\\_2019/html/Shi\\_Two-Stream\\_Adaptive\\_Graph\\_Convolutional\\_Networks\\_for\\_Skeleton-Based\\_Action\\_Recognition\\_CVPR\\_2019\\_paper.html](https://openaccess.thecvf.com/content_CVPR_2019/html/Shi_Two-Stream_Adaptive_Graph_Convolutional_Networks_for_Skeleton-Based_Action_Recognition_CVPR_2019_paper.html)
12. <https://arxiv.org/abs/2104.13586>
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