

## DATA SCIENCE

Pre-processing and other stuff- complete by august end, maximum 3 days for it. Maximum part is already covered these are some papers and blogs to read practice done on titanic dataset rest do on other projects

1. <https://towardsdatascience.com/introduction-to-data-preprocessing-in-machine-learning-a9fa83a5dc9d>
2. Notebooks
3. <http://scholar.google.com/scholar?q=From+Data+Mining+to+Knowledge+Discovery+in+Databases>
4. <https://machinelearningmastery.com/how-to-identify-outliers-in-your-data/>
5. <https://machinelearningmastery.com/improve-model-accuracy-with-data-pre-processing/>
6. <https://machinelearningmastery.com/discover-feature-engineering-how-to-engineer-features-and-how-to-get-good-at-it/>
7. <http://jmlr.org/papers/special/feature03.html>
8. <http://www.cs.berkeley.edu/~jordan/courses/294-fall09/lectures/feature/slides.pdf>
9. <https://machinelearningmastery.com/an-introduction-to-feature-selection/>
10. <http://machinelearningmastery.com/feature-selection-in-python-with-scikit-learn/>
11. [http://link.springer.com/chapter/10.1007/978-0-387-09823-4\\_45](http://link.springer.com/chapter/10.1007/978-0-387-09823-4_45)
12. [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=5128907](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=5128907)
13. <http://sci2s.ugr.es/keel/pdf/algorithm/congreso/kubat97addressing.pdf>.

## MATHEMATICS AND STATISTICS

Already done again refer college math books for gaining an insight. I have two books I will give one to you for this. Continue this side by side

1. Matrices and Determinants from college book
2. Probability cb- college book
3. Permutation and combination from class 11 maths book-
  - 1.class 12 <https://drive.google.com/open?id=1bLFOYkRu14Y1Tkp85UHLUTH7rRZ-ZQ2n>
  - 2.class 12 part-2 <https://drive.google.com/open?id=1YTifOkZYP-JyrdaLYg4MkqY7JlqHvjoC>
  - 3.class 11
- 4 .successive differentiation and vectors as well as differentiation and integration from class college and the sheets which we exchanged at the time of iiith
- 5.linear algebra – gilbert strang- <https://www.youtube.com/watch?v=Cx5Z-OsINWE&list=PLUI4u3cNGP63oMNUHXqIUcrs2PivhN3k>
6. probability- mit- <https://www.youtube.com/watch?v=1uW3qMFA9Ho&list=PLUI4u3cNGP60hI9ATjSFgZpbNJ7myAg6>
7. mathematical monk- <https://www.youtube.com/watch?v=yDLKJtOVx5c&list=PLD0F06AA0D2E8FFBA>
8. statistics- from college maths book
- 9 statistics- mit- [https://www.youtube.com/watch?v=VPZD\\_aj8H0&list=PLUI4u3cNGP60uVBMaoNERc6knT\\_MgPKSO](https://www.youtube.com/watch?v=VPZD_aj8H0&list=PLUI4u3cNGP60uVBMaoNERc6knT_MgPKSO)

10. statistics- udacity – inferential statistics- <https://classroom.udacity.com/courses/ud201>

11. Books - <https://drive.google.com/open?id=1--jzwK6MXbf6RF-2JnyZpbYlqqUMMT9A> ismein html aur css aur java script hacking wagherah ki bhi books hai who nahi padhni bass yehi karni hai ml wali abhi

12 <https://youtu.be/AD3K8j12EIE>

## DATA VISUALIZATION

Start it right now end by august end or September first week max

1. [https://www.youtube.com/watch?v=q7Bo\\_J8x\\_dw&list=PLQVvva0QuDfefDfXb9Yf0la1fPDKluPF](https://www.youtube.com/watch?v=q7Bo_J8x_dw&list=PLQVvva0QuDfefDfXb9Yf0la1fPDKluPF)
2. <https://www.youtube.com/watch?v=u6Xd3kRHhJI&list=PLQVvva0QuDc2QjQOkZ4rtLYZVllsZFZ>
3. <https://www.youtube.com/watch?v=ge6DAaJ-leM&list=PLQVvva0QuDdZO64qRXReimsOlogR-nLT>
4. <https://www.youtube.com/watch?v=ZlpFQNVhB7I&list=PLQVvva0QuDe60TfxLrJzdQEacMEltxl->
5. <https://www.youtube.com/watch?v=E6gvtfQHJUs&list=PLQVvva0QuDdEHKNFNdXlqNPhb3NVEqz>

## Machine learning

1 from notebooks

2 start coursera course after sessionals end by September

3 applcaions of ml-

[https://www.youtube.com/watch?v=OGxgnH8y2NM&list=PLQVvva0QuDfKTOs3Keg\\_kaG2P55YRn5v](https://www.youtube.com/watch?v=OGxgnH8y2NM&list=PLQVvva0QuDfKTOs3Keg_kaG2P55YRn5v)

4 cs229 <https://www.youtube.com/watch?v=UzxYlbK2c7E&list=PLA89DCFA6ADACE599>

Bass ml mein seekhne ka itna hi hai September end khatham sab

Deeplearning – try to finish it before this September ends

Initially toh hum kar hi chukke hai baaki ka karna hai ab bass

Practical -

<https://www.youtube.com/watch?v=wQ8BIbpya2k&list=PLQVvva0QuDfhTox0AjmQ6tvTgMBZBEXN>

Tensor flow – deep learning. Ai course

Tensor flow object detection <https://www.youtube.com/watch?v=COlbP62-B-U&list=PLQVvvaa0QuDcNK5GeCQnxYnSSaar2tpku>

Nlp <https://www.youtube.com/watch?v=FLZvOKSckxY&list=PLQVvvaa0QuDf2JswnfIGkliBlnZnIC4HL>

Sentiment -

<https://www.youtube.com/watch?v=CMyoQbBq5IE&list=PLQVvvaa0QuDfRO5bQFLcVgvlOIhNUZpZf>

Still we will first do deep learning.ai course

Cs230-

[https://www.youtube.com/watch?v=PySo\\_6S4ZAg&list=PLoROMvodv4rOABXSygHTsbvUz4G\\_YQhOb](https://www.youtube.com/watch?v=PySo_6S4ZAg&list=PLoROMvodv4rOABXSygHTsbvUz4G_YQhOb)

Nando de Freitas- <https://www.youtube.com/watch?v=dV80NAIEins&list=PLE6Wd9FR--EfW8dtjAuPoTuPcgmOV53Fu>

Cs 224- <https://www.youtube.com/watch?v=8rXD5-xhemo&list=PLoROMvodv4rOhcuXMZkNm7j3fVwBBY42z>

Cs 231- <https://www.youtube.com/watch?v=vT1JzLTH4G4&list=PL3FW7Lu3i5JvHM8ljYj-zLfQRF3EO8sYv>

Andrej karpathy -

<https://www.youtube.com/watch?v=NfnWJUyUJYU&list=PLkt2uSq6rBVctENoVBg1TpCC7OQi31AIC>

Fast.ai- <https://www.fast.ai/> bahot achha course hai

Bass itna hi bahot hai

GAN after deep learning next semester or earlier

Ahmad kumar - <https://www.youtube.com/user/kumarahmad/playlists>

Advanced machine learning fourth year

Coursera course of advanced machine learning that is sufficient enough

PROJECTS continue to do it every week one

All projects of Siraj raval after completing these projects in the courses

<https://github.com/ILSourceII>

reinforcement learning- after deep learning

notebooks

sentdex

[https://www.youtube.com/watch?v=yMk\\_XtIEzH8&list=PLQVvvaa0QuDezJFI0U5wDdfy4e9vdx-7](https://www.youtube.com/watch?v=yMk_XtIEzH8&list=PLQVvvaa0QuDezJFI0U5wDdfy4e9vdx-7)

<https://deepmind.com/blog> google

[http://videolectures.net/rldm2015\\_silver\\_reinforcement\\_learning/](http://videolectures.net/rldm2015_silver_reinforcement_learning/) google video

bass bahot hai

python and other stuff side by side do it

open cv -

<https://www.youtube.com/watch?v=Z78zbnLIPUA&list=PLQVvvaa0QuDdtJXlLtAJxJetJcqmqlQq>

web scrapping-

<https://www.youtube.com/watch?v=pLoRrHEsHb0&list=PLmcBskOCOOFUmbUv0CIMuATDVKvVrOhBMV>

<https://www.youtube.com/watch?v=aIPqt-OdmS0&list=PLQVvvaa0QuDfV1MIRBOcgCIP6VZXsvyZS>

sockets in python [https://www.youtube.com/watch?v=Lbfe3-v7yE0&list=PLQVvvaa0QuDdzLB\\_0JSTTcl8E8jsJLhR5](https://www.youtube.com/watch?v=Lbfe3-v7yE0&list=PLQVvvaa0QuDdzLB_0JSTTcl8E8jsJLhR5)

intermediate python

[https://www.youtube.com/watch?v=YSe9Tu\\_iNQQ&list=PLQVvvaa0QuDfju7ADVP5W1GF9jVhjbX-](https://www.youtube.com/watch?v=YSe9Tu_iNQQ&list=PLQVvvaa0QuDfju7ADVP5W1GF9jVhjbX-)

chatbot

[https://www.youtube.com/watch?v=dvOnYLDg8\\_Y&list=PLQVvvaa0QuDdc2k5dwtDTyT9aCja0on8j](https://www.youtube.com/watch?v=dvOnYLDg8_Y&list=PLQVvvaa0QuDdc2k5dwtDTyT9aCja0on8j)

python game –

1 [https://www.youtube.com/watch?v=Y7joZ67mC6o&list=PLQVvvaa0QuDcxG\\_Cajz1JyTH6eAvka93C](https://www.youtube.com/watch?v=Y7joZ67mC6o&list=PLQVvvaa0QuDcxG_Cajz1JyTH6eAvka93C)

[https://www.youtube.com/watch?v=ujOTNg17LjI&list=PLQVvvaa0QuDdLkP8MrOXLe\\_rKuf6r80KO](https://www.youtube.com/watch?v=ujOTNg17LjI&list=PLQVvvaa0QuDdLkP8MrOXLe_rKuf6r80KO)

2

[https://www.youtube.com/watch?v=R4n4NyDG2hI&list=PLQVvvaa0QuDdfGpqjkEJSeWKGCP31\\_wD](https://www.youtube.com/watch?v=R4n4NyDG2hI&list=PLQVvvaa0QuDdfGpqjkEJSeWKGCP31_wD)

Python forex [https://www.youtube.com/watch?v=TY-itPqAqHQ&list=PLQVvvaa0QuDdOmhrB\\_AHkhHv7aBfHalhX](https://www.youtube.com/watch?v=TY-itPqAqHQ&list=PLQVvvaa0QuDdOmhrB_AHkhHv7aBfHalhX)

Google cloud

<https://www.youtube.com/watch?v=chk2rRjSn5o&list=PLQVvvaa0QuDfGVb3yucqvKtUgwOJgZWCM>

Self driving cars -

<https://www.youtube.com/watch?v=J1F32aVSYaU&list=PLQVvvaa0QuDeI12McNQdnTIWz9XICa0uo>

Pyqt – gui -

<https://www.youtube.com/watch?v=JBME1ZyHiP8&list=PLQVvvaa0QuDdVpDFNq4FwY9APZPGSUyR4>

Tkinter baad mein daalenge

WEBD – just get a jist of it don't get into it completely after winter vacation

html-

<https://www.youtube.com/watch?v=kJA1xNgRrPY&list=PLQVvvaa0QuDdnrAVkQCXPrdXyja4dHgUn>

php-

[https://www.youtube.com/watch?v=C9Tg1h53Q8s&list=PLQVvvaa0QuDcYpcjrNB43\\_iKqla5UeQw](https://www.youtube.com/watch?v=C9Tg1h53Q8s&list=PLQVvvaa0QuDcYpcjrNB43_iKqla5UeQw)

javascript basics [https://www.youtube.com/watch?v=GrtSc2Mp0WI&list=PLQVvvaa0QuDf2\\_A04M-m0WubgLf2\\_geR6](https://www.youtube.com/watch?v=GrtSc2Mp0WI&list=PLQVvvaa0QuDf2_A04M-m0WubgLf2_geR6)

Django

[https://www.youtube.com/watch?v=yD0\\_1DPmfKM&list=PLQVvvaa0QuDe9nqlirjacLkBYdgc2inh3](https://www.youtube.com/watch?v=yD0_1DPmfKM&list=PLQVvvaa0QuDe9nqlirjacLkBYdgc2inh3)

[https://www.youtube.com/watch?v=obJr6zH0C2Q&list=PLQVvvaa0QuDcTDEowl-b5nQlaDaD82r\\_s](https://www.youtube.com/watch?v=obJr6zH0C2Q&list=PLQVvvaa0QuDcTDEowl-b5nQlaDaD82r_s)

flask

[https://www.youtube.com/watch?v=mr90d7fp3SE&list=PLQVvvaa0QuDcOS4l8RCWh0olq\\_je0OKaP](https://www.youtube.com/watch?v=mr90d7fp3SE&list=PLQVvvaa0QuDcOS4l8RCWh0olq_je0OKaP)

[https://www.youtube.com/watch?v=Lv1fv-HmkQo&list=PLQVvvaa0QuDc\\_owjTbIY4rbgXOFkUYOUB](https://www.youtube.com/watch?v=Lv1fv-HmkQo&list=PLQVvvaa0QuDc_owjTbIY4rbgXOFkUYOUB)

kivy app d

[https://www.youtube.com/watch?v=FjwD0SOGQ1k&list=PLQVvvaa0QuDfwnDTZWw8H3hN\\_VRQfg8rF](https://www.youtube.com/watch?v=FjwD0SOGQ1k&list=PLQVvvaa0QuDfwnDTZWw8H3hN_VRQfg8rF)

[https://www.youtube.com/watch?v=CYNWK2GpwgA&list=PLQVvvaa0QuDe\\_l6XiJ40yGTEqIKugAdTy](https://www.youtube.com/watch?v=CYNWK2GpwgA&list=PLQVvvaa0QuDe_l6XiJ40yGTEqIKugAdTy)

