### Generative vs. Discriminative Model

[Deep Understanding of Discriminative and Generative Models in Machine Learning](https://www.analyticsvidhya.com/blog/2021/07/deep-understanding-of-discriminative-and-generative-models-in-machine-learning/)

### CNN (Not in Final Syllabus)

* [A Comprehensive Guide to Convolutional Neural Networks — the ELI5 way | by Sumit Saha | Towards Data Science](https://towardsdatascience.com/a-comprehensive-guide-to-convolutional-neural-networks-the-eli5-way-3bd2b1164a53)
* [Simple explanation of convolutional neural network | Deep Learning Tutorial 23 (Tensorflow & Python)](https://www.youtube.com/watch?v=zfiSAzpy9NM&t=158s)

### Kernel and SVM

#### Kernel Trick:

[Kernel Tricks in Support Vector Machines | by Aman Gupta | Geek Culture | Medium](https://medium.com/geekculture/kernel-methods-in-support-vector-machines-bb9409342c49)

#### SVM:

* [SVM Kernels : Data Science Concepts](https://www.youtube.com/watch?v=OKFMZQyDROI)
* [Support Vector Machines Part 1 (of 3): Main Ideas!!!](https://www.youtube.com/watch?v=efR1C6CvhmE)
* <http://web.mit.edu/6.034/wwwbob/svm-notes-long-08.pdf>

#### Kernel Type:

* [Support Vector Machines Part 2: The Polynomial Kernel (Part 2 of 3)](https://youtu.be/Toet3EiSFcM)
* [Support Vector Machines Part 3: The Radial (RBF) Kernel (Part 3 of 3)](https://www.youtube.com/watch?v=Qc5IyLW_hns)

### Naive Bayes:

#### Bayes Theorem:

* [Bayes theorem, the geometry of changing beliefs](https://youtu.be/HZGCoVF3YvM)
* [How To Update Your Beliefs Systematically - Bayes’ Theorem](https://youtu.be/R13BD8qKeTg)

#### Naive Bayes:

* [Naïve Bayes Algorithm: Everything You Need to Know - KDnuggets](https://www.kdnuggets.com/2020/06/naive-bayes-algorithm-everything.html)
* [Naive Bayes, Clearly Explained!!!](https://youtu.be/O2L2Uv9pdDA)

### PCA:

* [Understanding Principal Component Analysis | by Rishav Kumar | Medium](https://medium.com/@aptrishu/understanding-principle-component-analysis-e32be0253ef0)

### Eigenvectors and Eigenvalues:

* [Eigenvectors and Eigenvalues explained visually](https://setosa.io/ev/eigenvectors-and-eigenvalues/)