ML-Roadmap-for-2022

A curated list of Machine learning videos, links, projects and datasets to help you conquer the ML landscape in 6 months

Levels of Learning

- 1. Testing the waters
- 2 Gaining Conceptual depth
- 3. Learning Practical Concepts
- 4. Diving into different domains
- 5. Pushing it with Projects

1. Testing the waters (Est. time 6-8 Weeks)

The goal of this level is to get you familiar with the ML universe. You will learn a bit of everything.

1. Learn Python (Est. time - 2 weeks)

- 1. Basics of Python https://www.youtube.com/playlist?list=PLKnIA16_Rmvb1RYR-iTA_hzckhdONtSW4
- 2. OOP in Python
 - Lecture 1 https://www.youtube.com/watch?v=1s869EfxoDo
 - Lecture 2 https://www.youtube.com/watch?v=8To-A6VPL90
- 3. Advance Topics
 - File Handling https://www.youtube.com/watch?v=ixEeeNjjOJ0
 - Exception Handling https://www.youtube.com/watch?v=NIWwJbo-9_8
 - Regular Expressions https://www.youtube.com/watch?v=K8L6KVGG-7o
 - Functional Programming https://www.youtube.com/watch?v=SvK_GErE2nM
 - Basics of Flask https://www.youtube.com/watch?v=swHI1H7DVsQ
- $4. \ \ Practice \ \ Problems https://docs.google.com/document/d/1E_xCNij0WZ4Bm7r7DVj-1OA-oUopEFmv4tRm0YNuFWQ/edit?usp=sharing between the problems of the$

2. Learn Numpy (Est. time 3 Days)

- 1. Numpy Playlist https://www.youtube.com/watch?v=CpPLLp3snK4&list=PLKnIA16 Rmvb-ToL3RQ bwxG4 ND-0-DT
- 2. Numpy Practice Problems https://github.com/rougier/numpy-100

3. Learn Pandas (Est. time 4 Days)

- 1. Pandas Playlist https://www.youtube.com/watch?v=kq9Vmg5d7Sk&list=PLKnIA16_RmvbR85fgbfVRKOiMokUKVupy
- 2. Pandas Problems https://github.com/ajcr/100-pandas-puzzles

4. Learn Data Visualization (Est. time 1 Week)

- $1. \ \texttt{Matplotlib} \texttt{https://www.youtube.com/playlist?list=PL-osiE80TeTvipOqomVEeZ1HRrcEvtZB_otales.} \\$
- 2. Seaborn https://www.youtube.com/playlist?list=PLKnIA16_RmvbB1bFGjvS6a8T0mnqawejo

5. Descriptive Statistics (Est. time 4 Days)

6. Learn Data Analysis Process (Est. time 1 week)

- 1. Playlist https://www.youtube.com/watch?v=ZhacwtUR0SU&list=PLKnIA16_RmvZAqJzKstVHywcRNMn6pcGD
- 7. Learn Exploratory Data Analysis (EDA) (Est. time 1 Week)

- 1. Understanding your data https://www.youtube.com/watch?v=mJlRTUuVr04
- 2. Univariate Analysis https://www.youtube.com/watch?v=4HyTlbHUKSw
- 3. Bivariate and Multivariate Analysis https://www.youtube.com/watch?v=6D3VtEfCw7w
- 4. Pandas Profiling https://www.youtube.com/watch?v=E69Lg2ZgOxg
- 5. EDA on House Prices Dataset https://www.kaggle.com/pmarcelino/comprehensive-data-exploration-with-python
- 6. EDA on Titanic Dataset https://www.kaggle.com/startupsci/titanic-data-science-solutions
- 7. EDA on Haberman's Survival Dataset https://www.kaggle.com/gokulkarthik/haberman-s-survival-exploratory-data-analysis
- 8. EDA on Heart Disease Dataset https://www.kaggle.com/kralmachine/analyzing-the-heart-disease
- 9. EDA on IPL Dataset https://www.kaggle.com/ash316/let-s-play-cricket
- 10. EDA on Wine Review Dataset https://www.kaggle.com/kabure/wine-review-s-eda-recommend-systems
- 11. EDA on PIMA Diabetes Dataset https://www.kaggle.com/shrutimechlearn/step-by-step-diabetes-classification-knn-detailed
- 12. EDA on Breast Cancer Dataset https://www.kaggle.com/kanncaal/statistical-learning-tutorial-for-beginners
- 13. EDA on Olympics Dataset https://www.youtube.com/watch?v=5nQXhusiu7s
- 14. EDA on Covid Data https://www.youtube.com/watch?v=ll0aZVNnOP8
- 15. WhatsApp Chat Analysis Project https://www.youtube.com/watch?v=Q0QwvZKG_6Q

8. Learn Machine Learning Basics (Est. time 1 Week)

- 1. What is Machine Learning? https://www.youtube.com/watch?v=ZftI2fEz0Fw
- 2. AI vs ML vs DL https://www.youtube.com/watch?v=1v3_AQ26jZ0
- 3. Types of Machine Learning https://www.youtube.com/watch?v=81ymPYEtFOw
- 4. Batch Machine Learning https://www.youtube.com/watch?v=nPrhFxEuTYU
- 5. Online Machine Learning https://www.youtube.com/watch?v=3oOipgCbLIk
- 6. Instance based vs Model based learning https://www.youtube.com/watch?v=ntAOq1ioTKo
- 7. Challenges in Machine Learning https://www.youtube.com/watch?v=WGUNAJki2S4
- 8. Applications of Machine Learning https://www.youtube.com/watch?v=UZio8TcTMrI
- 9. Machine Learning Development Lifecycle https://www.youtube.com/watch?v=iDbhQGz_rEo
- 10. Data Engineer V Data Analyst V Data Scientist V ML Engineer https://www.youtube.com/watch?v=93rKZs0MkgU
- 11. How to frame a Machine Learning problem? https://www.youtube.com/watch?v=A9SezQlvakw
- 12. Installing and using software for data science https://www.youtube.com/watch?v=82P5N2m41jE
- 13. How to work with CSV files? https://www.youtube.com/watch?v=a_XrmKlaGTs
- 14. Working with JSON and SQL data https://www.youtube.com/watch?v=fFwRC-fapIU
- $15. \ \, \text{Building an End to End Machine Learning Project https://www.youtube.com/watch?v=dr7z7a_8lQw}$

2. Gaining Conceptual depth (Est. time 6-8 Weeks)

The goal of this level is to learn the core machine learning concepts and algorithms

1. Learn about tensors (Est. time - 1 Day)

1. What are Tensors? - https://www.youtube.com/watch?v=vVhD2EyS41Y

2. Advance Statistics

- 1. Covariance
- 2. Pearson Correlation Coefficient
- 3. QQ Plot
- 4. Confidence Interval
- 5. Hypothesis Testing
- 6. Chisquare Test, Anova Test
- 7. Playlist link https://www.youtube.com/watch?v=qtaqvPAeEJY&list=PLKnIA16_Rmvbe9wDJGXc28KKr61p5Jn2g

Probability Basics

- 1. Conditional Probability
- 2. Independent Events
- 3. Bayes Theorem
- 4. Uniform Distribution
- 5. Binomial Distribution
- 6. Bernaulli Distribution
- 7. Poission Distribution
- $8. \ \, \texttt{Playlist Link https://www.youtube.com/watch?v=Ty7knppVo9E\&list=PLKnIA16_RmvYNbPMB6ofVLRCcTPUAftdY} \\$

4. Linear Algebra Basics

- 1. Representing Tabular Data
- 2. Vectors
- 3. Matrices
- 4. Matrix Multiplication
- 5. Dot Product
- 6. Equation of line in N-dim
- 7. Eigen Vector and Eigen Values
- 8. Playlist Link https://www.youtube.com/watch?v=e9h-ZZ ahRq&list=PLKnIA16 RmvYu0fS RuIB2eTbJcTFdrAA

5. Basics of Calculus

- 1. Big Picture of Derivatives
- 2. Maxima and Minima
- 3. Playlist link (first 4 videos only) https://www.youtube.com/playlist?list=PLBE9407EA64E2C318

6. Machine Learning Algorithms

- 1. Linear Regression https://www.youtube.com/watch?v=UZPfbG0jNec&list=PLKnIA16_Rmva-wY_HBh1gTH32ocu2SoTr
- 2. Gradient Descent https://www.youtube.com/watch?v=ORyfPJypKuU&list=PLKnIA16_RmvZvBbJex7T84XYRmor3IPK1
- 3. Logistic Regression https://www.youtube.com/watch?v=XNXzVfItWGY&list=PLKnIA16 Rmvb-ZTsM1QS-tlwmlkeGSnru
- 4. Support Vector Machines https://www.youtube.com/watch?v=ugTxMLjLS8M&list=PLKnIA16_RmvbOIFee-ra7U6jR2oIbCZBL
- 5. Naive Bayes https://www.youtube.com/watch?v=Ty7knppVo9E&list=PLKnIA16 RmvZ67wQaHoBuzXaDAfPz-a61
- 6. K Nearest Neighbors https://www.youtube.com/watch?v=BYaoDZM1IcU&list=PLKnIA16 RmvZiE-lEdN5RDi18-u-T43zd
- 7. Decision Trees https://www.youtube.com/watch?v=gwgmSSTdiXs&list=PLKnIA16_RmvYGY_n9PP8zN-0LG9MoZRjU
- 8. Random Forest https://www.youtube.com/watch?v=bHK1fE_BUms&list=PLKnIA16_RmvZyqP3WGUo7iVziIIea_1bp
- 9. Bagging https://www.youtube.com/watch?v=LUiBOAy7x6Y&list=PLKnIA16_RmvZ7iKIcJrLjUoFDEeSejRpn
- 10. Adaboost https://www.youtube.com/watch?v=sFKnP0iP0K0&list=PLKnIA16_RmvZxriy68dPZhorB8LXP1PY6
- 11. Gradient Boosting https://www.youtube.com/watch?v=fbKz7N92mhQ&list=PLKnIA16_RmvaMPgWfHnN4MXl3qQ1597Jw
- 12. Xgboost https://www.youtube.com/watch?v=BTLB-ppqBZc&list=PLKnIA16_RmvbXJbBW4zCy4Xbr81GRyaC4
- 13. Principle Component Analysis (PCA) https://www.youtube.com/watch?v=ToGuhynu-No&list=PLKnIA16_RmvYHW62E_lGQa0EFsph2NquD
- 14. KMeans Clustering https://www.youtube.com/watch?v=5shTLzwAdEc&list=PLKnIA16_RmvbA_hYXlRgdCg9bn8ZQK2z9
- 15. Heirarchical Clustering https://www.youtube.com/watch?v=Ka5i9TVUT-E
- 16. DBSCAN https://www.youtube.com/watch?v=RDZUdRSDOok
- 17. T-sne https://www.youtube.com/watch?v=NEaUSP4YerM and https://distill.pub/2016/misread-tsne/
- 7. Machine Learning Metrics https://www.youtube.com/watch?v=Ti7c-
 Hz7GSM&list=PLKnlA16_RmvZJGOqRjqhOhTEmQW3vDdbQ (https://www.youtube.com/watch?v=Ti7cHz7GSM&list=PLKnlA16_RmvZJGOqRjqhOhTEmQW3vDdbQ)
- 8. Bias Variance Tradeoff https://www.youtube.com/watch?v=74DU02Fyrhk (https:/
- 9. Regularization https://www.youtube.com/watch?v=aEow1QoTLo0&list=PLKnIA16_RmvZuSEZ24Wlm13QpsfLIJBM4)
- 10. Cross-Validation https://www.youtube.com/watch?v=S5NkE-xqx98 (https://www.youtube.com/watch?v=S5NkE-xqx98)

3. Learn Practical Concepts (Est. time 6-8 Weeks)

The goal of this level is to get you introduced to the practical side of machine learning. What you learn at this level would really help you out there in the wild.

1. Data Acquisition (Est. time - 2 Days)

- 1. Web Scraping https://www.youtube.com/watch?v=8NOdgjC1988

 * Project Create a Pandas dataframe of Indian cuisines from some website using web scraping.

 2. Fetch data from API https://www.youtube.com/watch?v=roTZJaxjnJc

 * Project Create a Pandas dataframe of movies from TMDB API.
- 2. Working with missing values (Est. time 3 Days)

- 1. Complete Case Analysis https://www.youtube.com/watch?v=aUnNWZorGmk
- 2. Handling missing numerical data https://www.youtube.com/watch?v=mCL2xLBDw8M
- 3. Handling missing categorical data https://www.youtube.com/watch?v=l_Wip8bEDFQ
- 4. Missing indicator https://www.youtube.com/watch?v=Ratcir3p03w
- 5. KNN Imputer https://www.youtube.com/watch?v=-fK-xEev2I8
- 6. MICE https://www.youtube.com/watch?v=a38ehxv3kyk
- 7. Kaggle Notebooks and Practice Datasets https://docs.google.com/document/d/1_9Y6kxNc6QTym2Y2JGEBbnCUbE1qZWLVzVXlT2eX_FQ/ed

3. Feature Scaling/Normalization (Est. time - 2 Days)

- 1. Standarization https://www.youtube.com/watch?v=1Yw9sC0PNwY
- 2. Normalization https://www.youtube.com/watch?v=eBrGyuA2MIg

4. Feature Encoding Techniques (Est. time - 2 Days)

- 1. Ordinal Enconding and Label Encoding https://www.youtube.com/watch?v=w2GglmYHfmM
- 2. One Hot Encoding https://www.youtube.com/watch?v=U5oCv3JKWKA
- 3. Encoding high cardinality categorical features https://www.kaggle.com/general/16927
- $4. \ \ Feature \ hashing https://datasciencestunt.com/dealing-with-categorical-features-with-high-cardinality-feature-hashing/linearity-feature-hashing-hash$

5. Feature Transformation(Est. time - 2 Days)

- 1. Log Transform https://www.youtube.com/watch?v=cTjj3LE8E90
- 2. Box Cox Transform https://www.youtube.com/watch?v=lV_Z4HbNAx0
- 3. Yeo Johnson Transform https://www.youtube.com/watch?v=lV_Z4HbNAx0
- 4. Discretization https://www.youtube.com/watch?v=kKWsJGKcMvo

6. Working with Pipelines(Est. time - 2 Days)

- 1. Column Transformer https://www.youtube.com/watch?v=5TVj6iEBR4I
- 2. Sklearn Pipelines https://www.youtube.com/watch?v=x0ccYkgRV4Q

7. Handing Time and Date data(Est. time - 1 Day)

1. Working with time and date data - https://www.youtube.com/watch?v=J73mvgG9fFs

8. Working with Outliers (Est. time - 3 Days)

- 1. What are Outliers? https://www.youtube.com/watch?v=Lln1PKgGr_M $\,$
- $2. \ \, \text{Outlier detection and removal using Z-score method https://www.youtube.com/watch?v=OnPE-Z8jtqMarkers.} \\$
- 3. Outlier detection and removal using IQR method https://www.youtube.com/watch?v=Ccv1-W5ilak
- 4. Percentile method https://www.youtube.com/watch?v=bcXA4CqRXvM

9. Feature Construction (Est. time - 1 Day)

1. Feature Construction - https://www.youtube.com/watch?v=ma-h30PoFms

10. Feature Selection (Est. time - 3 Days)

- $1. \ \ Feature \ \ selection \ \ using \ \ Select KBest \ \ and \ \ Recursive \ \ Feature \ \ Elimination https://www.youtube.com/watch?v=xlHk4ok08Ls&t=1s$
- $2. \ \, \text{Chi-squared Feature Selection https://www.youtube.com/watch?v=fMIwIKLGkeO}$
- 3. Backward Feature Elimination https://www.youtube.com/watch?v=zW1SvA0Z-14&t=2s
- 4. Dropping features using Pearson correlation coefficient https://www.youtube.com/watch?v=FndwYNcVeOU
- $5. \ \ \text{Feature Importance using Random Forest https://www.youtube.com/watch?v=R47JAob1xBY}$
- 6. Feature Selection Advise https://www.youtube.com/watch?v=YaKMeAlHgqQ

11. Cross Validation (Est. time - 2 Days)

- 1. What is cross-validation? https://www.youtube.com/watch?v=fSytzGwwBVw
- 2. Holdout Method https://www.youtube.com/watch?v=4NnI3SBuww4
- 3. K-Fold Cross Validation https://www.youtube.com/watch?v=gJo0uNL-5Qw
- 4. Leave 1 Out Cross Validation https://www.youtube.com/watch?v=yxqcHWQKkdA
- 5. Time series cross validation https://www.youtube.com/watch?v=g9i02AwTXyI

12. Modelling - Stacking and Blending (Est. time - 1 Week)

- 1. Stacking https://www.youtube.com/watch?v=O-aDHBGMqXA
- 2. Blending https://www.youtube.com/watch?v=TuIgtitqJho
- 3. LightGBM https://www.youtube.com/watch?v=n_ZMQj09S6w
- 4. CatBoost https://www.youtube.com/watch?v=800e-r0B5xQ

13. Model Tuning (Est. time - 4 Days)

- 1. GridSearchCV https://www.youtube.com/watch?v=4Im0CT43QxY
- 2. RandomSearchCV https://www.youtube.com/watch?v=Q5dH5mOQ_ik
- 3. Hyperparameter Tuning https://www.youtube.com/watch?v=355u2bDqB7c

14. Working with imbalanced data (Est. time - 3 Days)

- 1. How to handle imbalanced data https://www.youtube.com/watch?v=JnlM4yLFNuo
- 2. Kaggle Notebook https://www.kaggle.com/kabure/credit-card-fraud-prediction-rf-smote
- $\hbox{3. SMOTE on Quora Dataset https://www.kaggle.com/theoviel/dealing-with-class-imbalance-with-smote } \\$

15. Handling Multicollinearity(Est. time - 2 Days)

- 1. What is multicollinearity? https://www.youtube.com/watch?v=ekuD8JUdL6M
- 2. Practical Example https://www.youtube.com/watch?v=ATH4urDitI8
- 3. VIF in Multicollinearity https://www.youtube.com/watch?v=GMAp_tP1ZQ0

16. Data Leakage - (Est. time - 2 Days)

- 1. What is Data Leakage? https://machinelearningmastery.com/data-leakage-machine-learning/
- 2. Practical Data Leakage on Quora Question Pair Dataset https://www.kaggle.com/sudalairajkumar/simple-leaky-exploration-n
- 3. Practical Data Leakage on Credit Card data https://www.kaggle.com/dansbecker/data-leakage

17. Serving your model(Est. time - 1 Week)

- 1. Pickling your model https://www.youtube.com/watch?v=yY1FXX_GSco
- 2. Flask Tutorial https://www.youtube.com/watch?v=swHI1H7DVsQ
- 3. Streamlit Tutorial https://www.youtube.com/watch?v=Klqn--Mu2pE
- 4. Deploy model on Heroku https://www.youtube.com/watch?v=YncZ0WwxyzU
- 5. Deploy model on AWS https://www.youtube.com/watch?v=_rwNTY5Mn40
- 6. Deploy model to GCP https://www.youtube.com/watch?v=fw6NMQrYc6w
- 7. Deploy model to Azure https://www.youtube.com/watch?v=qnbJcbjh-3s
- 8. ML model to Android App https://www.youtube.com/watch?v=ax3WyB-_LJY

18. Working with Large Datasets

- 1. What is Out of core ML? https://www.youtube.com/watch?v=9e4nUuq2Hmg
- $\hbox{2. Practical implementation of Out of core ML https://www.youtube.com/watch?v=sRCuvcdvuzkness.} \\$
- 3. NYC Cab Dataset Project https://vaex.io/blog/ml-impossible-train-a-1-billion-sample-model-in-20-minutes-with-vaex-and-sci

4. Diving into different domains (Est. time 6-8 Weeks)

This is the level where you would dive into different domains of Machine Learning. Mastering these will make you a true Data Scientist.

1. SQL (Est. time - 2 Days)

- 1. Complete SQL Roadmap https://www.youtube.com/watch?v=FGBme8dWR_M
- 2. SQL learning resources https://docs.google.com/document/d/1wCALgWubTOvuvlXJ3Eweh7AgJj4sPq2pW92y3viPZbs/edit?usp=sharing
- 3. The only video you need to see https://www.youtube.com/watch?v=nopIGY1zJE0

2. Recommendation Systems

- 1. Movie Recommendation System https://www.youtube.com/watch?v=1xtrIEwY zY
- 2. Book Recommender System https://www.youtube.com/watch?v=sf93xpq8vaA
- 3. Fashion Recommender System https://www.youtube.com/watch?v=xanJe6e8Xuw

3. Association Rule Learning

- $1. \ Association \ Rule \ Mining (Apriori \ Algorithm) https://www.youtube.com/watch?v=guVvtZ7ZClw \ Algorithm \ Algorithm \ Algorithm) https://www.youtube.com/watch?v=guVvtZ7ZClw \ Algorithm \ Algorithm$
- 2. Eclat Algorithm https://www.youtube.com/watch?v=oBiq8cMkTCU
- 3. Market Basket Analysis https://www.youtube.com/watch?v=Y7Xkqqfz1UU

4. Anamoly Detection

- 1. Anamoly Detection Lecture from Microsoft Research https://www.youtube.com/watch?v=12Xq90LdQwQ
- 2. Novelty Detection Lecture https://www.youtube.com/watch?v=vIDcjbpwY3k

5. NLP

- 1. Complete NLP Roadmap https://www.youtube.com/watch?v=PKv okm1H-k
- 2. Complete NLP Playlist https://www.youtube.com/watch?v=zlUpTlaxAKI&list=PLKnIA16 RmvZo7fp5kkIth6nRTeQQsjfX
- 3. NLP Project Ideas https://www.youtube.com/watch?v=oWJe2T29kAo
- 4. Email Spam Classifier Project https://www.youtube.com/watch?v=YncZOWwxyzU
- 5. Building a Chatbot https://www.youtube.com/watch?v=Nb21OhaW8GY

6. Time Series(Coming Soon)

- 7. Computer Vision(Coming Soon)
- 8. Fundamentals of Neural Network https://www.youtube.com/playlist?list=PLKnIA16_RmvYuZauWaPIRTC54KxSNLtNn (https://www.youtube.com/playlist?list=PLKnIA16_RmvYuZauWaPIRTC54KxSNLtNn)

5. Pushing it with Projects (Est. time 6-8 Weeks)

The objective of this level is to sharpen your knowledge that you have accumulated in the previous 4 levels

- 1. 8 types of Projects for your portfolio https://www.youtube.com/watch?v=SQHfry4xmdM (<a href="https://www.youtube.com/watch?v=SQHf
- 2. How to select a project https://www.youtube.com/watch?v=kH--k1VKFt4 (https://www.youtube.com/watch?v=kH--k1VKFt4)
- 3. Car Price Predictor https://www.youtube.com/watch?v=iRCaMnR_bpA (https://www.youtube.com/watch?v=iRCaMnR_bpA)
- 4. Banglore House Price Predictor https://www.youtube.com/watch?v=DVxkI1VmpCk (https://www.youtube.com/watch?v=DVxkI1VmpCk)
- 5. Posture Detection using ML5.js https://www.youtube.com/watch?v=kRvlcdLhDtU) (https://www.youtube.com/watch?v=kRvlcdLhDtU)
- 6. Laptop Price Predictor https://www.youtube.com/watch?v=BgpM2liCH6k) (https://www.youtube.com/watch?v=BgpM2liCH6k)
- 7. Which bollywood celebrity are you? https://www.youtube.com/watch?v=X67rclJclL0 (https://www.youtube.com/watch?v=X67rclJclL0)
- $8. \ Finding \ similar \ GOT \ characters \underline{https://www.youtube.com/watch?v=ygGknomFEWY} \ (\underline{https://www.youtube.com/watch?v=ygGknomFEWY}) \ (\underline{https://ww$
- $9. \ \ IPL \ win \ probability \ predictor \\ \underline{https://www.youtube.com/watch?v=ygGknomFEWY}(https://www.youtube.com/watch?v=ygGknomFEWY)} \\ \\$
- 10. T20 score predictor https://www.youtube.com/watch?v=ygGknomFEWY)
- 11. Titanic Survivor Prediction https://www.youtube.com/watch?v=Bnp94fpxZjY) (https://www.youtube.com/watch?v=Bnp94fpxZjY)
- 12. Diabetes Prediction using ML https://www.youtube.com/watch?v=xUE7SjVx9bQ (https://www.youtube.com/watch?v=xUE7SjVx9bQ)
- 13. Fake news prediction https://www.youtube.com/watch?v=nacLBdyG6jE (https://www.youtube.com/watch?v=nacLBdyG6jE)
- 14. Loan Status Prediction https://www.youtube.com/watch?v=XckM1pFgZmg (https://www.youtube.com/watch?v=9ffkBvh8PTQ) (https://www.youtube.com/watch?v=9ffkBvh8PTQ) (<a href="https://www.youtube.com/watch?v=9f
- 16. Handwriting Classifier https://www.youtube.com/watch?v=1B3YlkyPNk0 (https://www.youtube.com/watch?v=1B3YlkyPNk0 (https://www.youtube.com/watch?v=1B3YlkyPNk0)
- 17. Flight Fare Prediction https://www.youtube.com/watch?v=y4EMEpEnEIQ (https://www.youtube.com/watch?v=y4EMEpEnEIQ)
- 18. Link for 500+ ML+DL projects https://github.com/ashishpatel26/500-Al-Machine-learning-Deep-learning-Computer-vision-NLP-Projects-with-code)