Channel link:

https://www.youtube.com/watch?v=LcWFedjaR4Q&list=PLfFghEzKVmjvIl5ZcBnFWQOUjtUVdDnmo

Course name : Complete machine learning course using Python

Duration : 60 hours

Creator : Details can be found in every video's description

Topics covered:

Part 1	**Module 1:** Machine Learning - Basic **Module 2:** Python basics for machine learning **Module 3 :** Python libraries for ML (numpy, pandas, matplotlib, seaborn) **Module 4:** Data collection as pre-processing
Part 2	**Part 2** **Module 5:** Mathematics for machine learning 5.1. Linear algebra (Vector as Matrices) 5.2. Statistics 5.3. Probability **Module 6:** Machine learning model 6.1 Working on ML models 6.2 Model selection 6.3 Overfitting to under-fitting 6.4 Log function as model evaluation 6.5 Model parameters and hyperparameters 6.6 Gradient descent
Part 3	**Module 7:** Building Machine learning models from scratch 7.1 Linear Regression 7.2 Logistic Regression 7.3 Support vector machine 7.4 Lesso regression
Part 4	**Module 8:** Machine learning model optimization 8.1 Cross-validation 8.2 Hyperparameter tuning 8.3 Model selection 8.4 Model evaluation
Part 5	**Machine Learning Model Deployment:** 1. Replay the machine learning model of the streamlit web app 2. Multiple Disease Prediction System - web app 3. Public web App - Streamlit cloud 4. Public web APP - Heroku

	5. Replay ML model as on the API 6. ML model as Public API-Heroku

Projects completed in (part 1 to 4 using machine learning concept):

1. Rocks vs Mine Prediction
2. Diabetes Prediction
3. Spam mail prediction
4.Heart disease prediction
5.Boston house price prediction
6.Loan approval prediction
7. Bigmart Sales prediction
8. Breast cancer prediction
9. Calories burnt prediction
10. Movie recommendation system
11. Customer segmentation in a shopping mall using clustering

Projects completed(from basic deep learning concept):

1. Breast cancer classification using neural networks
2. Processing image data - Python implementation
3. MNIST digit classification using Neural networks

Dataset availability: All the datasets have been downloaded from Kaggle. Also, it can be found in the video's description.

Programming medium: 1.google colab(used in all cases)

2. Anaconda Navigator has been used with other required editors for model deployment.

(Project_google colab_file_link):

https://drive.google.com/drive/folders/1XxSCvfi7EpjFomsBDoT1Ft-w9ZUEDj_F?usp=sharing

My talks: *I learned the concept from the video and recreated the project here. It is very similar to the video, but I have added many comments in the coding part to help me understand it easily when I review it after completing it for the first time.*