**INTERNSHIP PROJECTS**

**About Lesson**

**Perform any one project.**

1. **Stock Price Predictor**

* Develop a model that predicts stock prices based on historical data.
* Use linear regression or more advanced techniques if desired.

1. **Sentiment Analysis on Twitter Data**

* Build a sentiment analysis tool to classify tweets as positive, negative, or neutral.
* Use Natural Language Processing (NLP) libraries like NLTK or SpaCy.

1. **Handwritten Digit Recognizer**

* Train a Convolutional Neural Network (CNN) to recognize handwritten digits using the MNIST dataset.
* Useful for learning about image processing and CNNs.

1. **Movie Recommendation System**

* Build a simple recommendation system that suggests movies based on user ratings or genres.
* Implement collaborative filtering or content-based filtering techniques.

1. **Customer Churn Prediction**

* Predict whether a customer will leave a service based on historical data.
* Use classification techniques to analyze customer behavior and identify key factors.

1. **Chabot for Customer Service**

* Develop a rule-based or simple NLP-based Chabot for answering basic customer queries.
* Great for understanding basic NLP techniques and Chabot design.

1. **Spam Email Classifier**

* Train a model to detect and filter spam emails based on email content.
* Use techniques like Naive Bayes or Support Vector Machines (SVM) for classification.

1. **Image Classifier for Fruits**

* Build a model to classify different types of fruits (e.g., apple, banana, orange) from images.
* Use a small dataset and CNNs for image classification.

1. **Weather Data Analysis and Prediction**

* Analyze historical weather data and predict future temperature trends.
* Useful for working with time series data and basic regression techniques.

1. **Speech-to-Text Transcription**

* Create a simple tool that converts audio recordings into text.
* Use basic libraries for speech recognition (e.g., Speech Recognition in Python).