News App

You can use Django to create a news aggregator application. This web app uses web crawlers and websites to show a collection of news from various sources. You’ll get to aggregate data from multiple sites to create this tool. Data aggregation can be quite a useful skill, and completing this project will help you learn the same.

### Login System

Every aspiring Django Developer must know how to build a login system. Login systems are a crucial element of all types of commercial Web and mobile projects, and hence, this is an excellent project for beginners.

To build a login system, you can start by implementing a basic template of a login system, incorporate some changes in the template and use it to develop your web app’s login system. When you develop a login system using Django, you will not only hone your development skills but also learn the functioning of login systems from a Developer’s point of view.

### Calorie Counter

A calorie counter app lets you track and monitor your calorie intake and also how much calories you burn each day. Since this is a very simple project, it is ideal for beginners.

You will create a calorie counter app with Django, where users can enter the details of all the food they consume in a day, and the app will calculate the calories and display the results to them. You can also add advanced functions to allow users to add their daily workout sessions and activities that will show how much calories they burn daily

### Sending Emails with Python

**Project idea –** Automate the process of sending emails with some customized features based on business requirements. You can have a list of email addresses and their respective names. Then you can modify the message and send emails to the target audience automatically

### Django Chat App

**Project idea –** Create a simple chat app where you can create chat rooms and users will chat in real-time. You don’t need to store all the previous chat records as you can display only a few recent chats and older chats will be deleted.

### Automatic Tweets Posting

**Project idea –** In this project, you can build a bot to automatically post tweets using the Twitter API. You can also use another API to randomly get quotes, funny lines, etc to post on Twitter. Make sure to set a few hours interval between each tweet.

### Clothes Online Store with Payment

**Project idea –** Another good project is to build a web application for an online store. Users can buy merchandise from the store so we also need to set up a payment module to handle transactions

## [Stock Prices Predictor using Time Series](https://www.dezyre.com/project-use-case/time-series-forecasting-1" \o "Stock Prices Predictor using TimeSeries" \t "_blank)

This is another interesting machine learning project idea for data scientists/machine learning engineers working or planning to work with finance domain. Stock prices predictor is a system that learns about the performance of a company and predicts future stock prices. The challenges associated in working with stock prices data is that it is very granular, and moreover there are different types of data like volatility indices, prices, global macroeconomic indicators, fundamental indicators , and more. One good thing about working with stock market data is that the financial markets have shorter feedback cycles making it easier for data experts to validate their predictions on new data. To begin working with stock market data, you can pick up a simple machine learning problem like predicting 6 month price movements based on fundamental indicators from an organizations’ quarterly report.You can download Stock Market datasets from Quandl.com  or Quantopian.com.

There are different time series forecasting methods to forecast stock price, demand etc. Check out this machine learning project where you will learn to determine which forecasting method to be used when and how to apply with time series forecasting example

## [Music Recommendation System Project](https://www.dezyre.com/project-use-case/music-recommendation-challenge" \o "Music Recommendation System" \t "_blank)

This is one of the most popular machine learning projects and can be used across different domains. You might be very familiar with a recommendation system if you've used any Ecommerce site or Movie/Music website. In most Ecommerce sites like Amazon, at the time of checkout, the system will recommend products that can be added to your cart. Similarly on Netflix or Spotify, based on the movies you've liked, it will show similar movies or songs that you may like. How does the system do this? This is a classic example where Machine Learning can be applied.

In this project, we use the dataset from Asia's leading music streaming service to build a better music recommendation system. We will try to determine which new song or which new artist a listener might like based on their previous choices. The primary task is to predict the chances of a user listening to a song repetitively within a time frame. In the dataset, the prediction is marked as 1 if the user has listened to the same song within a month. The dataset consists of which song has been heard by which user and at what time

  Housing Price Prediction ML Project

House Prices Dataset consists of prices of houses across different places in Boston. The dataset also consists of information on areas of non-retail business (INDUS), crime rate (CRIM), age of people who own a house (AGE) and several other attributes (the dataset has a total of 14 attributes).Boston Housing dataset can be downloaded from the UCI Machine Learning Repository. The goal of this machine learning project is to predict the selling price of a new home by applying basic machine learning concepts on the housing prices data. This dataset is too small with 506 observations and is considered a good start for machine learning beginners to kick-start their hands-on practice on regression concepts

### Fake News Detection Project

**Project idea –** Fake news spreads like a wildfire and this is a big issue in this era. We can learn how to distinguish fake news from a real one. We can use supervised learning to implement a model like this.

**Dataset:**[Detecting Fake News Dataset](https://drive.google.com/file/d/1er9NJTLUA3qnRuyhfzuN0XUsoIC4a-_q/view)

**Source Code:**[Fake News Detection Project](https://data-flair.training/blogs/advanced-python-project-detecting-fake-news/)

Any doubts in DataFlair’s machine learning project ideas till now? Ask in the comment section.

### Chatbot Using Deep Learning

**Deep Learning Project Idea –** Another great project is to make a chatbot using deep learning techniques. Chatbots can be implemented in various ways and a good chatbot also uses deep learning to identify the context the user is asking and then provide it with the relevant answer