# Project List

## 1. Coronary heart disease prediction

Advent of machine learning in predicting heart disease - The project is about predicting the occurrence of heart disease using machine learning models and data analytics. Machine learning may be used to diagnose, detect, and forecast many disorders in the medical industry. The primary purpose of this study is to give clinicians a tool to detect cardiac problems at an early stage. As a result, it will be easier to deliver appropriate treatment to patients while avoiding serious effects.

## 2. Apple IOS Mobile App store analysis

This project is about analyzing IOS app store reviews and run a data analytics on the data set to see how many apps are free and paid? Is there a difference in ratings between free vs paid app? Find distribution of apps based on content category, which genre has the highest number of apps? Does size and language support of app have any impact on its ratings? Mobile app analytics is a great way to understand the existing strategy to drive growth and retention of future user.

## 3. Stroke Prediction

Stroke is the third leading cause of death in the United States, and about 137,000 Americans die due to this disease each year. In the United States, one suffers from stroke every 40 second and every 3–4 minute one dies from stroke. Researchers identified five risk factors for stroke and developed a prediction model with each factor assigned several points proportional to its influence: Diabetes, age greater than 65 years, heart rate variability, high blood pressure and gender. The goal of this project is to use statistical learning to identify the combination of the factors that are more likely to be associated with stroke and predict whether a patient will have stroke or not based on given attributes.

## 4. Customer Churn Prediction Analysis

Customers are a company's greatest asset and retaining customers is important for any business to boost revenue and build a long-lasting meaningful relationship with customers. Moreover, the cost of acquiring a new customer is five times more than that of retaining an existing customer. Customer Churn is one of the most acknowledged problems in the business where customers or subscribers stop doing business with a service or a company. Ideally, they stop being a paid customer. A customer is said to be churned if a specific amount of time has passed since the customer last interacted with the business. Identifying if a customer will churn and quickly delivering actionable information aimed at customer retention is critical to reducing churn.

## 5. Projection of Store Sales

Good inventory management is primarily about managing demand and supply. Having a good idea of the store sales can help to get a good idea of the demand for various products in the market and hence, stock up with the correct amount of goods. This is especially critical in terms of perishable goods since these goods must be sold from stores before the end of their shelf life, otherwise, they will be wasted and be a loss for the stores. Store sales can be influenced by many factors, some of which are promotions, the presence of competitors, holidays, seasonality, and locality. Identifying patterns in these trends and determining how they influence sales can be done through the application of machine learning.

## 6. NLP based ChatBot

Chatbots, once considered a dream, can now be realized into reality because of Natural Language Processing (NLP), an exciting subdomain of Artificial Intelligence that deals with modelling human languages. Using NLP techniques with machine learning algorithms, it is possible to build our own Chatbots.  This project is one of the easy machine learning projects for beginners in NLP as it will guide us through various techniques in NLP like Lemmatization, Parts-of-Speech Tagging (POS Tagging), Tokenization, Bag-of-Words model, etc.

## 7. Housing Prices Prediction

In this task on House Price Prediction using machine learning, our task is to use data from the California census to create a machine learning model to predict house prices in the State. The data includes features such as population, median income, and median house prices for each block group in California. Block groups are the smallest geographic unit which typically has a population of 600 to 3,000 people. We can call them districts for short. Ultimately, our machine learning model should learn from this data and be able to predict the median house price in any neighborhood, given all other metrics.

## 8. Credit Card Fraud Detection

For any bank or financial organization, credit card fraud detection is of utmost importance. We must spot potential fraud so that consumers cannot bill for goods that they have not purchased. The aim is, therefore, to create a classifier that indicates whether a requested transaction is a fraud. In this machine learning project, we solve the problem of detecting credit card fraud transactions using machine numpy, scikit learn, and few other python libraries. We overcome the problem by creating a binary classifier and experimenting with various machine learning techniques to see which fits better.

### 9. Twitter sentiment Analysis

Sentiment analysis refers to identifying as well as classifying the sentiments that are expressed in the text source. Tweets are often useful in generating a vast amount of sentiment data upon analysis. These data are useful in understanding the opinion of the people about a variety of topics. In this project, we try to implement a Twitter sentiment analysis model that helps to overcome the challenges of identifying the sentiments of the tweets.

### 10. Movie Recommendation System Using Machine Learning

A movie recommendation system, or a movie recommender system, is an ML-based approach to filtering or predicting the users' film preferences based on their past choices and behavior. It is an advanced filtration mechanism that predicts the possible movie choices of the concerned user and their preferences towards a domain-specific item, aka movie. The primary goal of movie recommendation systems is to filter and predict only those movies that a corresponding user is most likely to want to watch. The ML algorithms for these recommendation systems use the data about this user from the system's database. This data is used to predict the future behavior of the user concerned based on the information from the past.