



# Data Science | Artificial Intelligence | Machine Learning

**Real Time Projects &  
Job Referral Program**



# JOB ASSISTANCE PROGRAM

Data Science | Artificial Intelligence | Machine Learning



After completion of your program you have to pass final exam to get IBM Certificate.

Attend project sessions from industry experts to get a hands on experience of real time projects.

After certification and project session update your resume.

Start preparing yourself with mock interviews and guided interview sessions.

Once you get eligible, you will start getting guaranteed Interview Calls

## ELIGIBILITY CRITERIA

For Guaranteed Interview call & Job Referral

- Should have completed Term 1,2 and Term 3 of our program (Refer Course brochure for details)
- Should have more than **1 Years of work experience** (in any Domain)
- Should have completed 70% of Assignments and case studies
- At-least completed 2 Projects (Mentored and guided by our expert)

## TO KNOW MORE



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[Course Brochure for Data Science & AI](#)



[Course Brochure AI & Machine Learning](#)

# Students Placed in Top MNC's



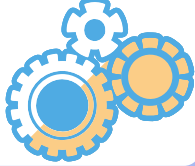
Mu Sigma



# Real-time Industry Projects

*by applying datasets of different companies from various domains*

Automotive



E-Commerce



Finance



NLP



Telecom



HealthCare



Manufacturing



Banking



Supply Chain



Social Media



## Project Sample Recordings

**Rapido Project** - Getting insights of top 50 user with most booking, bottom 50 users, frequent pickup points etc. Performing feature engineering, data anomaly, etc.



**Human Activity Recognition** using Smart phone Data Set Each person performs 6 action (walking, walking upstairs, walking downstairs, sitting, lying) which is captured in Samsung Galaxy II.



**Customer Segmentation Case Study** - Identifying Customer Segments with high likelihood of conversion for Loan Offers.



# 1. IBM HR Analytics

Domain | Human Resource

**Data Set :** IBM Employee Data

**Problem Statement :** An analysis of IBM HR data based on attrition of employee performance.

Powers the Human Resource department by precisely identifying on masked inconsistency of the employees. The model catches the variation in graph of performance of more than 1400 employees.

**Regression techniques and different tests will be applied for accurate prediction of attrition rate and its dependencies based on various factors present in the data set.**

The goal is to maintain the quality in result by maintaining the quality of delight in the coworkers.



# IBM



## 2. Forecasting Uber/ Rapido Demands

Domain | Demand/Supply

**Data Set :** Tableau Dashboard

**Problem Statement :** For swift and reliable update of dynamic data with the help of Tableau.

Uber, Ola, Rapido, and other such ride-sharing systems have become a norm in urban transportation. The goal here is to create an interactive dashboard using Tableau, the Dashboard of which can be used to get historical insights into a neighborhood. The purpose of this model will to Obtain dynamic data, Google Cloud storage system, Real-time and Transform, Modeling and Evaluation.



### 3. Netflix Movies and TV Shows

Domain | Entertainment

**Data Set** : Media service providers

**Problem Statement** : Easy, Responsive and Intelligent search engine and recommendation bar of Netflix.

**The project focuses on algorithms that understands country-specific contents, smart identification of contents on text based input, relation of contents with similar data of cast, makers and popularity.**



# NETFLIX



### 4. Analyzing Health Data and tracking human activity

Domain | Health Care

**Data set** : Health care software

**Problem statement** : Recognition of Human Activity using the smart gesture sensitive software in phones and gadgets.

Activities like walking, racing, upstairs and downstairs movement and such will be tracked by the mobility of smart gadgets like Samsung Galaxy II.

**The core process is of breaking down the data collected by the system and tracking the result by analyzing them.**



SAMSUNG

## 5. Customer Reviews on Amazon Products

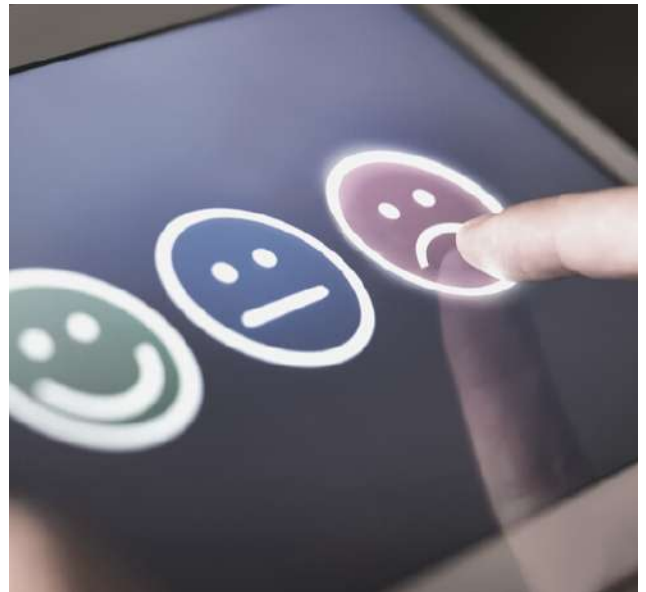
Domain | E-Commerce

**Data Set** : Amazon Data set

**Problem statement** : Classification of Amazon products according to their rate of likes and dislikes.

Among the several other products present in the e-commerce site Amazon, this model will classify each product based on the review it beholds. It will constantly keep track on the number of ratings each product gets and will update the result simultaneously in the data set.

**Maps the keywords in the review text against the review ratings to help train sentiment models.**




## 6. Smart Supply Chain for Big Data Analysis

Domain | Supply Chain

**Data Set** : Supply Chain of Data sets

**Problem Statement** : Analyzing the supply chain of Data sets applying Data Analytics

A Data set of Supply Chains was used by company DataCo Global for the Analysis Report. **It uses the Machine Learning Algorithms and R Software in areas of important registered activities like Provisioning, Production, Sales, Commercial Distribution. It also allows the correlation of Structured Data with Unstructured Data for knowledge generation.**

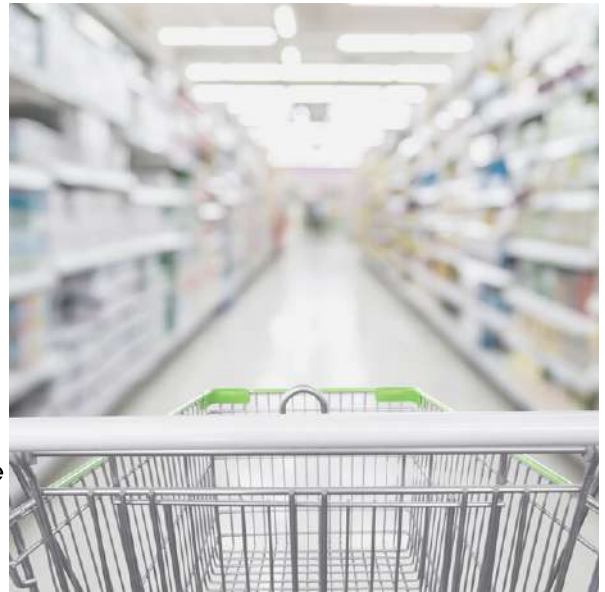
# 7. Walmart Sales Forecasting

Domain | Retail

**Data Set** : Sales Forecasting

**Problem Statement** : Maintaining the sales in retail by prior predictions.

This model stores the dataset of the Walmart's in which entire details of each department of every Walmart store will be present. Each store's selected holidays, marked events, unusual events will lower the sales to some extent, the model works on this regard, predicts by analyzing the rate of decrease in sales based on such data. **This will keep the retailers notified to take precautionary actions.**



# 8. Bosch Production Line Performance

Domain | Supply Chain

**Data Set** : Testing of the products

**Problem Statement** : To ensure the quality, safety and reliability of the products.

Bosch, one of the world's leading manufacturing companies, has an imperative to ensure its products are of the highest quality and are of safety standards.



**The model is used to predict internal failures using thousands of measurements and tests made for each component along the assembly line. This would enable Bosch to bring quality products at lower costs to the end-user.**



## 9. Generating a ChatBot

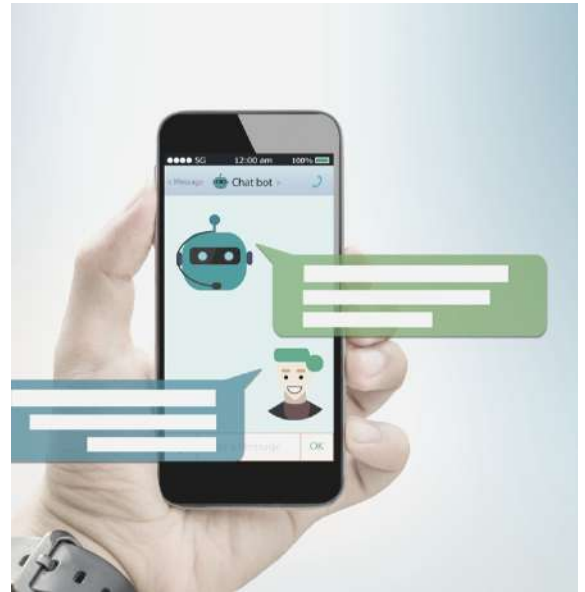
Domain | NLP

**Data Set** : ChatBot's

**Problem Statement** : Knowledgeable Chatbot's with advanced NLP intelligence.

ChatBot's are the new age customer service providers because of their ability to serve various queries of various users, they are used in smart electronic devices, websites and software applications.

This model works in more efficiency by the implementation of **NLTK library in python, to perform tasks such as automatic summarization, translation, named entity recognition, relationship extraction, sentiment analysis, speech recognition, and topic segmentation.**



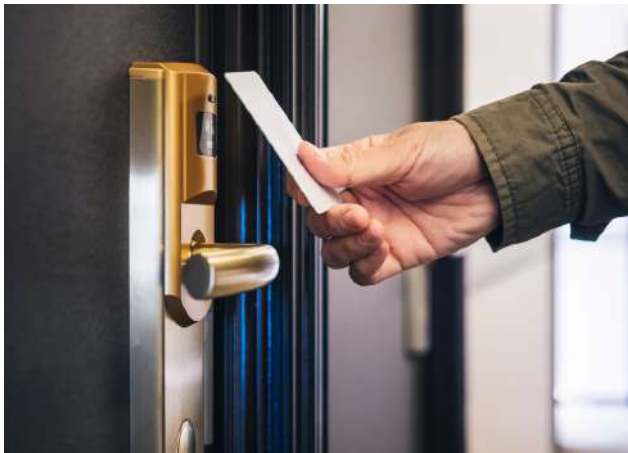
## 10. Airbnb New User Bookings

Domain | Travel & Hospitality

**Data Set** : Airbnb

**Problem Statement** : Predicting the probability of the clients desire of travel destination by following the patterns of Data.

The model accurately predicts to which destination a new traveler may desire to book the vacation. With such accurate data Airbnb can share more personalized content with their community, decrease the average time to first booking, and better forecast demand.



# 11. BMW Pricing Challenge

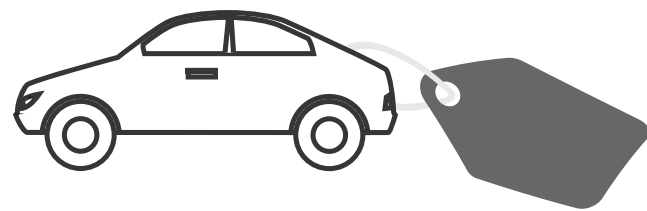
Domain | Automotive

**Data Set** : BMW Dataset

**Problem Statement** : Predict the value of a used car

The data provided consists of almost 5000 real BMW cars that were sold via a B2B auction in 2018.

**With the help of statistical approach the model will evaluate the risks and pros of each vehicle on terms of its manufactured date, for how much years been used, efficiency, historical data of the service and more such.**



# 12. Credit Card Fraud Detection

Domain | Finance

**Data Set** : Banking & Finance Dataset

**Problem Statement** : Catching of the pseudo or fraudulent

The model helps in recognizing fraudulent credit card transactions or a disguised transaction with by the processes like **Data Cleaning, Data Visualization, Insights generation, Model generation, Feature Engineering** and so on.



# 13. Trending YouTube Video Statistics

Domain | Social Media

**Data Set** : Statistical take on Youtube

**Problem Statement** : Daily statistics for trending YouTube videos

This dataset will be collected using the YouTube API, by which the daily record of the top trending YouTube videos will be analyzed and be kept on track.

Things the algorithm catches:

**Sentiment analysis in a variety of forms, categorizing YouTube videos based on its comments and statistics, training of ML algorithms like RNN's to generate their own YouTube comments, analyzing what factors affect on a popular YouTube video, Statistical analysis over time.**



# 14. Identify And Predict Customer churn in telecom industry

Domain | Telecom

**Data Set** : Telecom Dataset

**Problem Statement** : Identifying And Predicting of Customer churn in telecom industry

The goal is to develop a churn prediction model which assists telecom operators to predict customers who are most likely subject to churn. Also to understand the customer behavior and reasons for churn. **Apply multiple classification models to predict the customer churn in telecom industry.**



# 15. Home Credit Default Risk

Domain | Banking

**Data Set** : Credit Risk

**Problem Statement** : Process of Credit and Loans handled by Machine Learning.

Credit Risk is the nightmare every banks faces, with the help of Machine Learning it can be sought with organised way.

**The model identifies the capable and reliable clients on basis of their behavior of transactions, loan history, payment sincerity and other such.**



# 16. Predicting Stock Prices Using LSTM

Domain | Stock Market

**Data Set** : LSTM

**Problem Statement** : Building and training the **LSTM** model for Stock Price Prediction.

Determining the future value of a company stock or other financial instrument traded on an exchange. Prediction of the Closing Stock Price of a given Company.



**Focusing on:**

**Rolling Linear Regression, ARIMA, Neural Networks, LSTM, Momentum/Mean-Reversion Strategies, Security clustering, portfolio construction, hedging, ROI.**

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