**KEY PROJECTS**

1. **Investment Analysis Model:** Predicted global trends in investments by identifying the best sectors, countries and a suitable investment type for making investments for an asset management company.
2. **Car Price Prediction Model:** Predicted the car price for an automobile company by analyzing 20k+ records using Linear Regression.
3. **Telecom Customer Churn Model:** Predicted customers who are at high risk of churn for a telecom company based on usage by analyzing 100K records. Identified best model using PCA, Logistic regression and SVM to predict the customers who will churn. Created another model using Decision trees and Logistic to predict the churn driver variables.
4. **Airline Travel Information Systems**:Information Extraction system using HMMs and Viterbi algorithm for POS tagging
5. **Restaurant Search Chatbot:** Built a chatbot called Foodie to help users discover restaurants across several Indian cities quickly and efficiently and to provide a good restaurant discovery experience using an open source framework Rasa.
6. **Gesture Recognition on Smart Televisions**: Developed a cool feature in the smart-TV that can recognize five different gestures performed by the user which will help users control the TV without using a remote.
7. **Reinforcement Learning — Implement TicTacToe**: Built an RL agent that learns to play Numerical Tic-Tac-Toe with odd numbers (the agent will always make the first move). Trained your agent using Q-Learning. The environment will play randomly with the agent, i.e. its strategy is to put an even number randomly in an empty cell. If the agent wins the game, it gets 10 points, if the environment wins, the agent loses 10 points. And if the game ends in a draw, it gets 0. Also, the agent should win in as few moves as possible, for each move, it gets a -1 point.