Catching Poacher Using Object Detection:

In nature preserve center, there has been ongoing poaching events which can be catch by video camera set inside the forest. Analyzing millions of images in real time is a daunting task for humans, which is where machine learning comes in. We can identify poacher and alert rangers after the model analyze and identifies poacher activity. This could be a game changer where the poaching activity might reduce and we can save endangered species. The problem with this is finding the right images of poachers.

Loan Defualt Prediction Using Machine Learning:

Loan default is a significant challenge for banks and financial institutions. Predicting the likelihood of loan default is a critical task that helps these organizations assess the risk and make informed lending decision. Machine learning offers a powerful solution to this problem. By analyzing large amounts of historical data, a machine learning model can identity patterns and relationships that can accurately predict the likelihood of loan default. The model considers factors such as credit score, employment status, income, and more other factors to generate a prediction of the probability of loan default. The data for this project is found online.

Sentiment analysis on Company Financial statement

Sentiment analysis is a useful technique for understanding public opinion about a company's financial performance. One way to analyze this sentiment is by examining a company's 10-k financial statement. A 10-K is a comprehensive report that publicly traded companies must file annually with the Securities and Exchange Commision (SEC). By using machine learning algorithms to analyze the text in a company's 10-K filing, a sentiment analysis model can identify key themes and opinions expressed in the document, such as optimism or pessimism about the company's future prospects. These insights can help investors make more informed decisions about whether to invest in a particular company or not. For this project data are accessed through the SEC website.