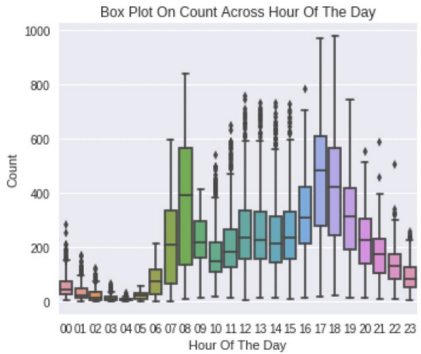
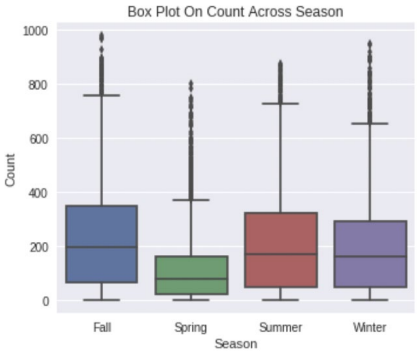
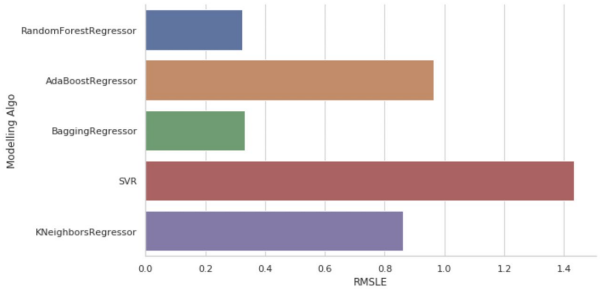
Bike Sharing Demand

Developed a predictive model to estimate the demand for bike sharing systems using previous usage data such as duration of travel, departure and arrival locations, combined with weather data.





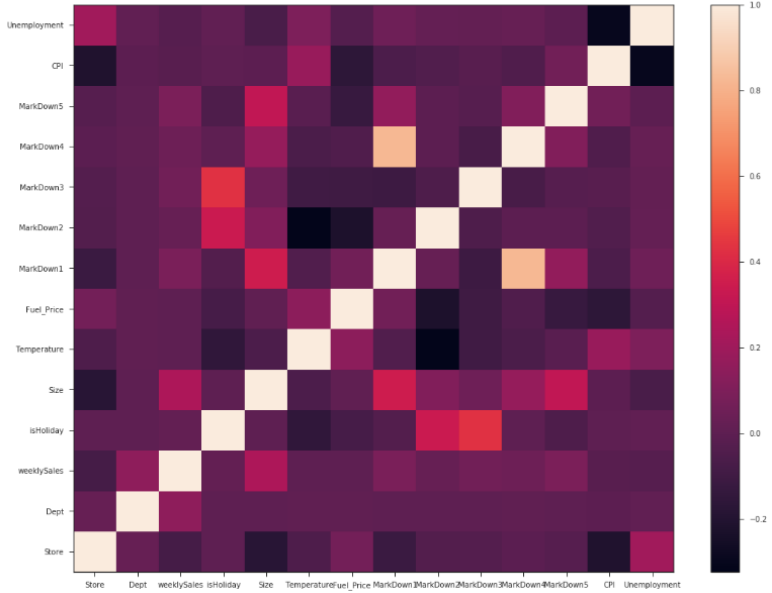


Human or Robot?

Used two datasets provided by Facebook that includes the user’s personal information from their username to their address and the second dataset contains the user’s bid through a mobile device.

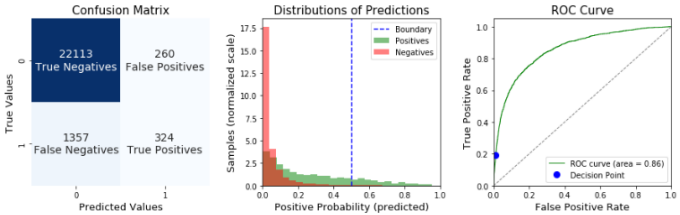
Stores Sales Forecasting

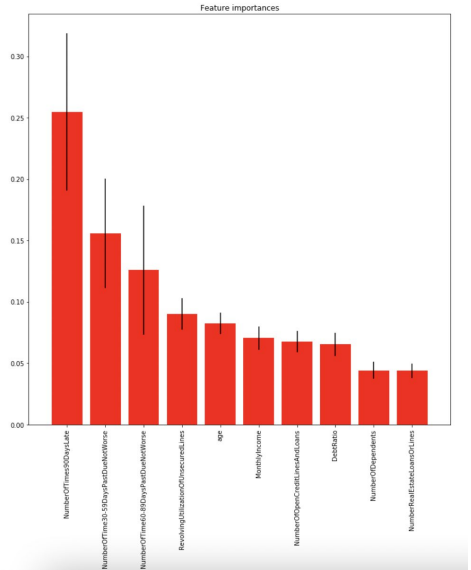
Developed a strategic decision-making tool that estimates projected sales of various departments within big-box retailers for specific holiday seasons and gives insights in designing holiday sales events.

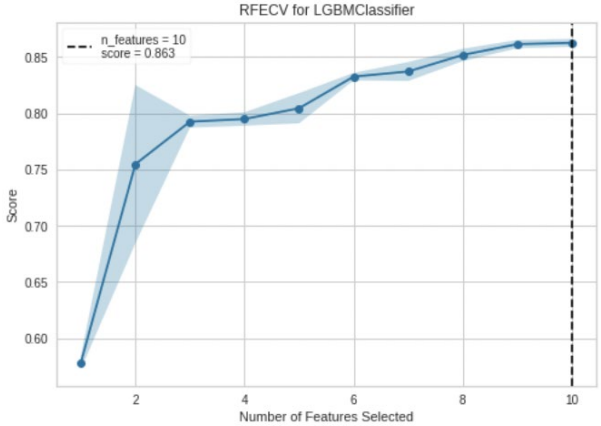


Give Me Some Credit

Developed a model that predicts the probability that a person will experience financial distress in the near future. This tool allows people to self-assess their financial risks and help make better financial decisions.



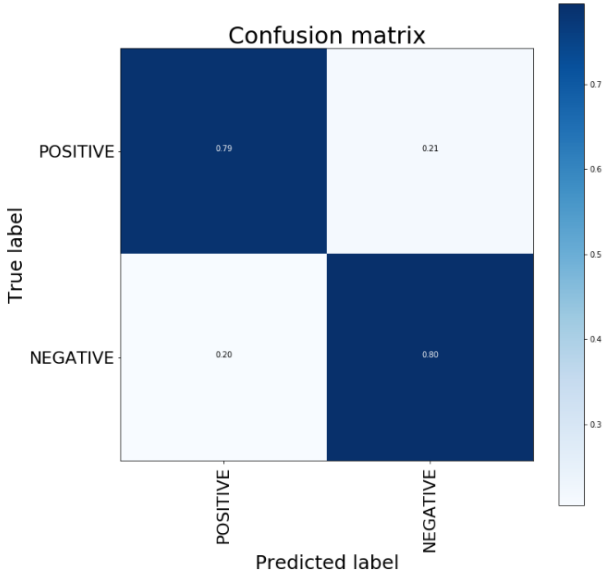




Shows the optimal number of features

Text Analysis: Sentiment140 Dataset with 1.6 million tweets

Executed automatic classification of the sentiment of Twitter messages to guide consumers who want to research the sentiment of products before purchase, or companies that want to monitor the public perception of their brands.



Text Analysis: Sentiment Analysis on Movie Reviews

Extracted sentiments dissolved into movie reviews using machine-learning algorithms such as random forest and LSTM to provide a market research tool for companies.

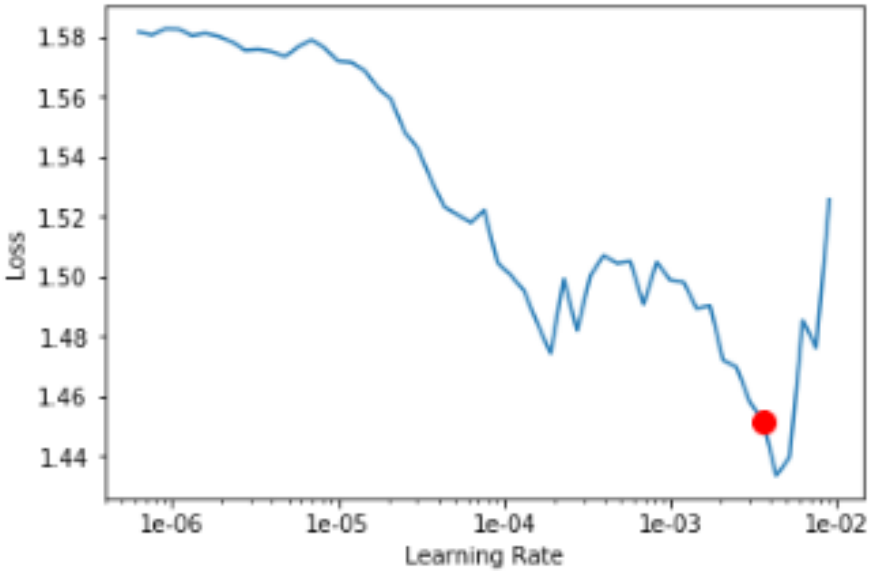
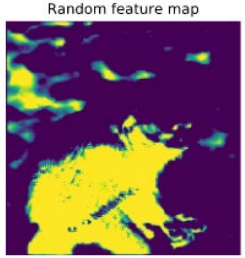
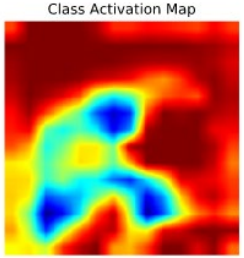


Image Analysis: 10 Monkey Species

Demonstrated explainable artificial intelligence by visualizing the activation map of convolutional neural network to show what an AI is looking at while performing classifications of different monkey species.





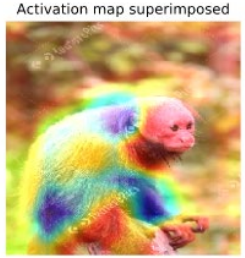


Image Analysis: Chest X-Ray Images (Pneumonia)

Built an X-ray image classification workflow to predict the presences of pneumonia. This is especially useful during these current times as COVID-19 is known to cause pneumonia.

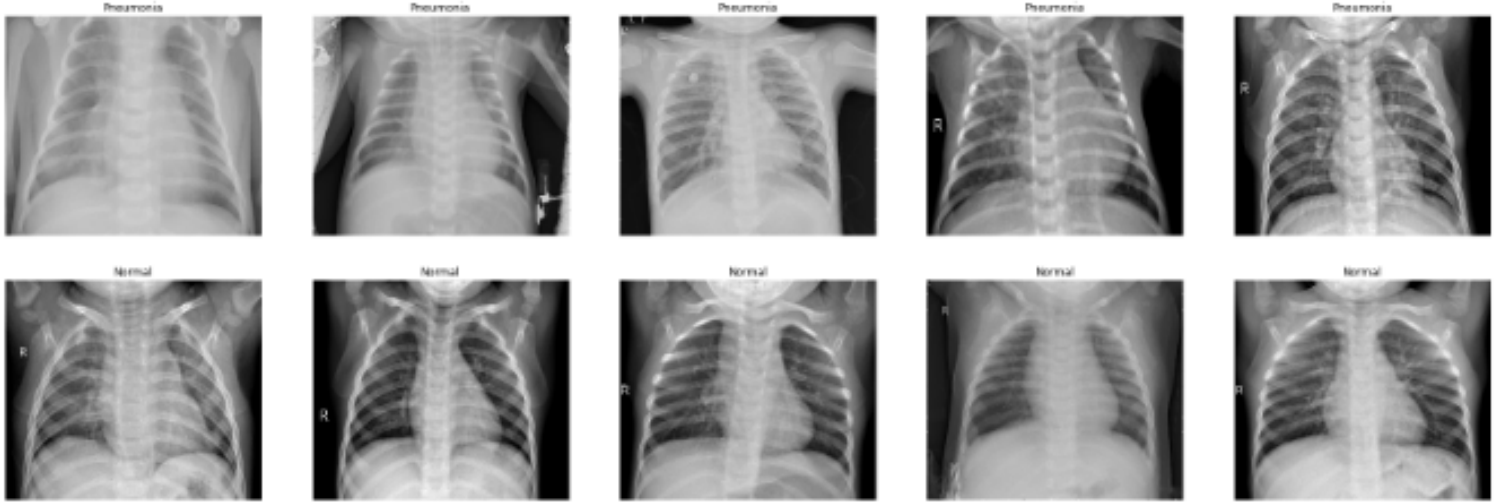
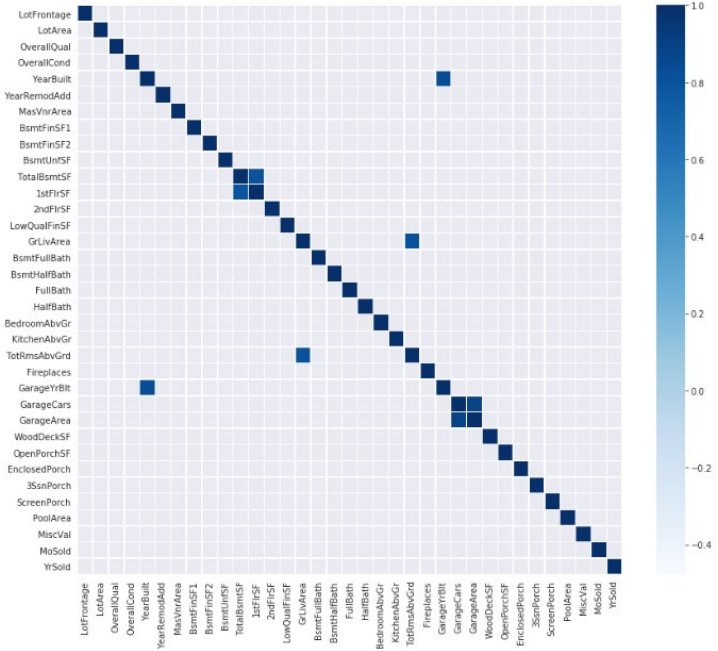


Image Classification: Housing Prices Competition for Kaggle

Extracted 79 features from images of houses to generate a predictive model using advanced regression techniques like random forest and gradient boosting.



Machine Learning Project: Shelter Animal Outcomes

Developed a machine learning model to predict whether an animal at shelter would get adopted or euthanized. This insight could help shelters focus their energy on specific animals who need a little extra help finding a home.