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Hardikprasad Patel in ()

Post Graduate Program in Artificial Intelligence and Machine Learning

2020-2021

TEXAS McCombs
The University of Texas at Austin
McCombs School of Business

COURSE PROJECTS

Mar'21

Twitter Sentiment Analysis for Airline Services

Course   Introduction to Natural Language Processing

To identify the sentiment from a tweet to understand an airlines' customer satisfaction

Skills and Tools

Working with text, vectorization, VEDAR sentiment analysis

Feb'21

Computer Vision

Course   Introduction to Computer Vision

To identify the plant seedlings species from 12 different species using a convolutional neural network

Skills and Tools

Working with images, Computer Vision, Keras, CNN

Jan'21

Bank Customer Churn Prediction

Course   Introduction to Neural Networks

To help the operations team identify the customers that are more likely to churn by building an artificial Neural Network from scratch.

Skills and Tools

Tensorflow, keras, ANN, Google colab

Dec'20

AllLife Credit Card Customer Segmentation

Course   Unsupervised Learning

To identify different segments in the existing customers based on their spending patterns as well as past interaction with the bank.

Skills and Tools

EDA, Visualization, KMeans Clustering

Oct'20

Concrete Strength Prediction Improvement

Course   Feature Selection, Model Selection and Tuning

To analyze the various features at hand and predict the concrete strength. Implement the concepts of feature engineering and model tuning to increase the performance of the model.

Skills and Tools

Cross Validation, Feature Engineering, Model Tuning, Regression techniques

Oct'20

Term Deposit Subscription Prediction

Course   Ensemble Techniques

To help the marketing team in identifying the potential customers for subscribing to a term deposit.

Skills and Tools

EDA, Supervised Learning, Decision Trees, Visualization

Sep'20

Loans Campaign Target Prediction

Course   Supervised Learning

To help in designing the loan campaign for converting the existing customers to liability customers by building a classification model that identifies the existing customers that are more likely to buy a loan.

Skills and Tools

Logistic Regression, Classification, Exploratory Data Analysis

Aug'20

MovieLens Data Exploratory Data Analysis

Course   Fundamentals of AIML

Perform exploratory data analysis to explore the features and their importance. Also, explore trends in movie watching by the masses across the years.

Skills and Tools

Pandas, NumPy, EDA, Visualization