

# **Santa Clara University**

## **COEN 240: Machine Learning**

### **Project Proposal**

#### **Group Members:**

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#### **Project Topic:**

Prediction of Foreign Exchange Rates using a variety of Machine Learning Algorithms.

#### **Project Description:**

One of the greatest financial marketplaces is currency exchange. Exchange rates are influenced by a variety of variables, including psychological, political, and economic ones. Every day, exchange rates vary, which has an impact on people's income, businesses, and even a nation's economy. Therefore, forecasting currency exchange rates has various benefits for both an individual and a nation.

Regression in machine learning is used for predicting currency exchange rates. We aim to build an efficient machine learning model (comparison based on our research through various technical publications) and utilize that to predict the currency exchange rates. Although Artificial Neural Networks (ANN) also works best for this prediction, we chose Decision Tree Algorithm as it gives us a better accuracy than ANN.

We will be using the dataset from Kaggle which contains data of many time series with varying foreign exchange rates of different countries.