**Self & Team Assessment**

As a team, everyone worked on every project section contributing either through any ideas or coding or suggesting images or slides:

* **Janak Patel:** He was initially responsible for creating branch and maintain the GitHub for merging and all deliverables to the main branch and keeping Readme information’s up to date along with it he also works on, he was built ML model by the 2nd segment of the project and simultaneously working on the 1st role. At first, he was not confident to work on ML model, but he took it as a challenge, studied about it in depth and worked on Decision Tree Regressor Model for this project
* **Mark Melendez:** He was always interested and excited about working on the Machine Learning models for this project. So, it was easy to choose him for ML model role along with mine. To predict future prices, he suggested to use Time Series Model to the team for the 1st time and he also self-studied it and built the 1st ARIMA Model. He also came up with the idea to build a Bitcoin Prediction website that will work on ML model prediction prices for any user request for future price. Which was the great idea and bonus point for the team.
* **Sherin Chacko:** She was interested in working on Dashboard part of the role and underconfident to work on ML, but daily group meetings gave her more confidence to take at least one ML model for the project and then worked on Random Forest Regressor. It was tuff for her, so she did self-study on it and created the model for it. By the later part of the project, she also created the presentation on google slide
* **Uttam Kumar**: Since the beginning, he was very clear on the take the DB and dashboard creation role. The team was fully confident in Uttam, and he did his best to get what the team wanted. Even during Tableau and Mongo DB connection issue on cloud, he tried everything to get it fixed but eventually it didn’t happen, and we went ahead with JASON file connection for Tableau.

**Project Summary**

For our Rutgers University Data Science Bootcamp Project our group analyzed Bitcoin Cryptocurrency to help predict the future price. The first phase, we analyzed the Journey of Bitcoin for past decade, this was to educate both ourselves and the Batch. In the second phase, we tried various Machine Learning Model like Linear Regression, Random Forest Regressor, Time Series like ARIMA and SARIMA and finally chose SARIMA as the best model for our data to predict future prices for the next 15 days.

As a result of this, Bitcoin has shown volatile behavior over the decade and recent times. Predicting Bitcoin price of far in future is not recommended, couple of days or max to a week is safe.