**Project 2: Cryptocurrency**

**ETL(Extract, Transform, Load)**

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**Abstract**

The project’s objective was to track the rise of cryptocurrency from 2015 to 2018. Data was extracted from multiple sources and compiled to a database. The trading volume, open, close, high and low was extracted from a Kaggle.com Dataset “Cryptocurrency Historical Prices” for the time period of 1/1/2015 thru 12/31/2018. We then used an API from polygon.io to scrape aggregate data for 4 primary types of cryptocurrency- Bitcoin, Dogecoin, Ethereum and Litecoin.

**Breakdown of Roles and Tasks –** The ETL process is composed of Extract, Transform and Load processes.

Extract

* **Uchenna:** Scrape the polygon.io API for aggregate data for the 4 primary types of cryptocurrency
* **Marius:** Scrape the Kaggle.com dataset for trading data from 2015 to 2018 for Ethereum and Litecoin
* **Dawn:** Scrape the Kaggle.com dataset for trading date from 2015 to 2018 for Bitcoin and Dogecoin

Transform

* All members used Pandas to clean the data
* **Uchenna:** Merging data into one table

Load

* **Uchenna**: Load into Posgres SQL the composite table containing all data

Plots

Analysis

See Jupyter Notebook and Final Report