

# PROJECT PLAN DOCUMENT

Project number	13
Project Title	Algo Trading Project
Document	Project Plan
Creation date	01-Feb-2020
Created By	Gadela Kesav
Client	Sudeep Reddy, Spinlogics

## Brief problem statement

Develop an algorithmic script which uses data obtained from web to predict the trends of cryptocurrencies using EMA(Exponential Moving Average), SMA(Simple Moving Average), WMA(Weighted Moving Average) etcetra ,run this python script on a server and Implement to send alerts and preferably the reasoning behind alert to assigned Telegram account on conditions specified. The script must also log all its past predictions and their accuracy in an XML/csv format.

## Team Members

Gadela Kesav

Animesh Sinha

Sai Tharun Reddy

Bhuvanesh Srinathan

## Team Communication

The Team meets on every (saturday) to interact with each other and the status of the project is discussed and splitting of work is done accordingly.

The team interacts with the client in every sprint once or twice as per the schedule of client when he is available.

## Development Environment

The script for algo trading is completely in python EMA(Exponential Moving Average), SMA(Simple Moving Average), WMA(Weighted Moving Average) etcetra.

The past predictions are all stored in a csv/XML format.

Matplotlib and seaborn are used for drawing graph diagrams.

And Botfather api is used for sending message Alerts whenever required.

## Milestone Schedule

Milestone	Due Date	Release	Deliverable?
Create draft requirements	<i>21-Jan</i>	R1	No
Finalize requirements	<i>21-Jan</i>	R1	Yes
Create project Plan and SRS document	<i>01-Feb</i>	R1	Yes
Run the scripts to collect data and obtain reports by applying 18 given metrics and 6 different time combos	<i>15-Feb</i>	R1	No
Analyzing effect of cost of Bitcoin in USD and plot profit graph for each algo	<i>15-Feb</i>	R1	Yes
Evaluate and mark common times of pump in the coins based on volume and prices	<i>29-Feb</i>	R1	No
Device Algorithm to predict pump and compare with current alert system in telegram groups	<i>29-Feb</i>	R1	Yes
Analyze current hard coded 18*6 metrics and decide on features that ML model should be trained on	<i>14-Mar</i>	R2	No
Build a convolutional neural net to analyze structure in data	<i>14-Mar</i>	R2	Yes
Contrast performance of this against rules to ensure its better	<i>23-Mar</i>	R2	No
Add reasoning and graphs along with alert message sent on the chat bot through telegram	<i>23-Mar</i>	R2	Yes
Peer Review	<i>11-Apr</i>	R2	Yes