Description:

This program will take in a picture of a chart as an image file such as .jpg and .png, extract the data of each cell, and export the data into a .csv file which the user may use to analyze personally or save for future reference.

The program is based in python and it will call the external program OpenCV and Tesseract. First, the main program will call OpenCV to look open the image file and prepare it for reading by converting it to black and white. It will then search cells and returns its coordinates within the image. This will return to the main program which will then start Tesseract. Tesseract will read the coordinates within the image and save its content as a string. After this process is done, the main program will end Tesseract and write a .csv file containing the contents of the inputted image.

Projection:

Excelsior is a python script that may easily be integrated into a webapp. Our entrepreneurial goal for this project is to implement Excelsior as a web service. Users may visit our site and upload images to be converted. The script will run on the uploaded images and, if meaningful output is produced, the users will be given a download link for their output.

This may be provided on a pay-by-page basis, with the full source being available for a fee or possibly for free with a donation link. Assuming the monthly payment for hosting a site is around $35, we can provide pay-by-page for 99 cents, thus making the monthly quota 35 hits a month. With that, we can possibly make anywhere from $500 to $1000 monthly depending on the need for this service.