

Data Analysis Project

Data Analyst: (You)

Client/Sponsor: Amazon

Purpose:

Write a brief description of why this project is happening below. Why is this project happening? What are the goals?

They want to build a tool to track all the price changes of the products on their website. The prices of the electronic products depends upon many factors such as product launches, holidays, cross platform pricing and most importantly inventory on hold at an warehouse

Scope / Major Project Activities:

What are the major parts of this project? List out the high-level steps, activities, or stages of the project, and give a brief description for each.

| Activity | Description |
|-------------------|--|
| Data collection | Data needs to be collected from many platforms using web scrapping |
| Price comparisons | Data needs to be monitored for changes for a duration 5 years in the past and 3 months in the future to do some price predictions. |
| Predictions | Predicting the best date to buy a specific product. |

This project does not include:

Specify the things that this project isn't responsible for doing (out of scope). For instance, "this project does not involve a summation of 2019 data analysis"

- It is assumed that the data set is already available.
- Apart from that we will only be working on the electronic items because the price of them is always fluctuating.

- This project will only have a prediction accuracy of 90 percent but there is a chance that prices of the product do not change. It can only tell the accurate date within the period of 14 days.

Deliverables:

A specific list of things that your project will deliver.

| Deliverable | Description/ Details |
|------------------------------|--|
| Web Tool | A working API. |
| Beta report | A report that shows the predictions of all the electronic items. |
| Cloud deployment and reports | The dockerised files will be uploaded to the cloud. |

Schedule Overview / Major Milestones:

The expected schedule for the project. This can be defined by milestones (e.g. "all data is cleaned and processed"), periods of time ("Week 1 / Week 2"), or other ways based on the needs of the project.

| Milestone | Expected Completion Date | Description/Details |
|--|--------------------------|---|
| <i>Problem statement and data sets</i> | <i>28 June 2023`</i> | <i>Well defined problem statement and all the data sets</i> |
| <i>Beta model</i> | <i>7 July 2023</i> | <i>A local tool that works on a data set to predict future prices</i> |
| <i>Final deployment</i> | <i>14 July</i> | <i>A cloud push of the web tool for internal testing</i> |

*Estimated date for completion:

This is my "if all goes well and I have everything I need, this is when I'll be done" date.