**Project 3 Group 1**

[**https://github.com/ThePennyGoblin/SMU\_Project\_3\_Team-\_1.git**](https://github.com/ThePennyGoblin/SMU_Project_3_Team-_1.git)

**Topic and Rationale:**

We are QC (quality-control) team for a production-line butcher.

**Data: (housed in github link, sourced from industrial butcher)**

* **CSV1:** One month’s worth of production line metrics from camera and scale.
  + 34k data points
  + 27 product lines
* **CSV2:** One customer’s quality specification requirements for each product line’s thickness and weight.

**Goals:**

* **Data Visualization Track**
* **Provide Conclusions** -
  + Do all product lines adhere to the customer’s specifications?
  + Identify outliers for further research
  + Dependent on their values, could outliers be a real part of the process or camera malfunction?
* **Process Transparency -** Allow users (customer, internal stakeholders, team-members) to access and review visuals themselves so they can self-educate, possibly access underlying data

**Initial Visualization Ideas:**

Source: industry samples

<https://www.advantive.com/blog/box-and-whisker-charts-help-improve-manufacturing-process-control/>

**A graph with numbers and a pie chart

Description automatically generatedA graph of a person

Description automatically generated with medium confidence**

**A screenshot of a computer

Description automatically generated**

**Deliverables:**

1. **Database** with data cleaned and transformed
2. **Website** with pages for:
   1. Index
   2. Visuals of products side-by-side
   3. Visuals of individual products
   4. Report of Outliers
   5. *BONUS (if time) pull specific info in data-form from site*

**Workflow and Initial Responsibilities:**

After initial cleaning, responsibilities divided among group members within each of the following sections:

