**Step 0 | Create Project**

* Create a new empty Dataiku project using the “New Project” button and name it whatever you want



**Step 1 | Import necessary tables**

* Import 2 manufacturing part datasets
  + **av\_manufacturing\_per\_part**
  + **av\_manufacturing\_summary**
* For help with importing a data set, see the video titled: “Importing Data”

**Step 2 | Build a dashboard**

* Create a dashboard and give it a name.
  + A dashboard allows you to share multiple data visualizations/tables within your project in one place
  + For help with creating a dashboard, see the video titled: “Managing Dashboards”

**Step 3 | Create your first insight**

* Create a new insight, choose ‘Chart’, create the chart off of the **av\_manufacturing\_per\_part** table.
* Set your new insight to be a line chart.
  + A line chart is a visual aggregation of data that provides insight into the relationships of your dataset
  + For help with creating a chart, see the video titled: “Creating Charts”

**Step 4 | Setting the values of the chart**

* X Value: SN (Serial Number)
* Y Value: MIN, MAX, MSMTS (Measurements)
* Filter: PN (Part Number)
* Subcharts: OP (Operation #)
* For SN, change the aggregation in *Binning* to “***none, use raw values****”* and set *Handling of empty bins* to “***Average of Neighbors****”*
  + We change binning in this use case because we don’t want to treat a large selection of parts as one part.
  + We also use “Average of Neighbors” because it is possible that a part will not make it to the next operation because of manufacturing errors, which would result in a zero value for the next operation – throwing our lower and upper boundaries off.
* Publish the chart to your dashboard

**Step 5 | Create a second insight**

* Create a new insight and use the **av\_manufacturing\_summary** table. Feel free to use any type of chart you want in order to visualize what proportion of engine parts pass inspection.
  + *parts\_mfg\_ct* = Total parts created (count)
  + *mfg\_pct =* Average of parts that have passed quality checking
* Publish the chart to your dashboard

**Step 6 | Submit your work**

* Take a screenshot of your finished dashboard, return to the InsideSherpa portal to upload it, and check your work!