

Step 0 | Create Project

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



+ NEW PROJECT

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 Forage portal to upload it, and check your work!