Presentation:

“On the Same Wavelength”

About Me:

* former grantwriter turned data science student
* lifelong interest in how physical products move in an interconnected world
* before the immersive data science program at Galvanize,
* completed a MicroMasters in supply chain analysis and modeling from MITx

My project:

* used data from the American subsidiary of a European manufacturing company of high-end consumer products (anonymous)
* demand highly seasonal – nearly half of all sales in the fourth quarter of the year.
* forecasting is done on a yearly basis since
* long lead times (nearly 4 months)
* little wiggle room to adjust to peak season market changes
* compared 3 methods for forecasting for seasonal demand: Box Jenkins, Holt Winters, and the modestly named Facebook prophet
* accuracy of forecasts highly dependent on the underlying distribution of data
* identified clusters of like products that move similarly in time using k-means clustering with dynamic time warping as a distance measure
* come by