Regression

Computer Science Retreat

- 1. Get the 'JohnsonJohnson' dataset:
 - from pydataset import data
 - dataset = data('JohnsonJohnson')
- 2. Plot the data what is it showing?
- 3. Make a linear fit to the data and plot it overlaid on the data.
- 4. Quantify the error, is it a good fit?
- 5. Now make a polynomial fit to the data. What is the lowest order that gives a reasonable fit?
- 6. Notice the annual structure to the data, what could be going on?
- 7. Now make a fit that will include the annual variations as well (tips what kind of function could you use? to fit arbitrary functions use leastsq from scipy.optimize and make sure to give sensible input parameters)