A screenshot of a computer

Description automatically generated

Hi Adam,

degree is the algebraic complexity of the best fit equation, where degree of 1 means a straight-line function of x, degree 2 means a parabolic function of x-squared, etc.

If the degree is too high, you get an oscillatory line that is not useful for inference or estimation.

Best fit curves are examples of machine learning; when curve fit degree is too high you have overfit & overtrained. The overfit curve can hit many points in your training set (including noise and outliers) but will perform poorly on inference or prediction of future data.

I picked 5 by trial and error.

The waveform screen shot with degree of 7 shows the model breaking up.

A table with math equations

Description automatically generated

A graph with green and white lines

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