

CSE 519 -- Data Science
Quant Shop Video Review Form

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Video episode title: Finding Miss Universe **Episode number (1-8)** 1

Of the eight episodes, how many have you previously watched? (0-7) 3

Give the month and year you started your graduate studies at Stony Brook August 2017

Did you learn anything by watching it? (Y/N) Y

Describe stuff you did learn below (if Y):

1. For some problems, it is possible that the amount of data available is not sufficient to build a reliable model. In such cases, it helps to look for data in other places (in this case, similar contests such as Miss World).
2. Some effort may be needed to convert the raw data into a usable form (in this case, running images of contestants through a beauty ranking software). Different ways to do this should be explored.
3. Going beyond the evident factors affecting the outcome, it may help to consider where some elements in the problem are coming from (in this case, details of each contestant's country were also taken into account).

What did you learn from looking at their project report?

1. When there are a large number of variables which can possibly affect the outcome, using effective visualization techniques helps understand which ones are ineffectual. (The correlation matrices in the report have been plotted well, making use of colors.)
2. Input data can be tweaked if the available data is insufficient. (The team considered the top 16 contestants as winners, since the actual number of winners in the data set was very less.)

Rate program quality from 1 (terrible) to 10 (amazing): 9 **Was it worth watching (Y/N)?** Y

What could we do to make the videos better, and more educational?

More material about which models were tried, tested and rejected/accepted can be included in the video to provide a deeper insight into the project.