**CSE 519 -- Data Science**

**Quant Shop Video Review Form**

Name: Rohan Vaish Email: rvaish@cs.stonybrook.edu

ID Number 111447435

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

Of the eight episodes, how many have you previously watched?  (0-7): 2

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):

I learnt about an area about which I practically had no idea about, that is beauty contests. I figured out that it’s not just the outside beauty that wins you such contests but there are various other factors such as intelligence and charm as well. It also taught me that it’s not just the contestant that matters, but country’s past performance and other factors like country population literacy rate, GDP also contribute significantly. To score beauty, different models were studied on the basis of their correlation but as they failed to give acceptable results, they weren’t used for the final prediction.

What did you learn from looking at their project report?

They have used correlation scores with respect to the winning chances by passing previous years’ data into their model to determine which factor contributes positively and which one negatively. They have also classified the parameters based on contestant’s person features, country factors and facial beauty score. They examined three facial beauty scoring techniques (Le Hou's Model, Anaface and Human Perception of Beauty) finally choosing to quantify “Human Perception of Beauty” results and using them in their model. Noticeably, their model observes that age, height and negatively correlated to the chances of winning. Other the other hand, country score, population, literacy, country age, GDP, beauty score are positively correlated. After studying various classifiers, they found logistic regression to be the most apt one given it’s the least variance. In the end, they predicted 8 out of top 16 countries correctly, and the predicted winner USA came out to be the first runners up position which is very acceptable.

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?

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1. More visual depiction of the data sets.
2. More insight about how to choose the right data sets and models.
3. Incorporating the project reports in the videos in short