CSYE 7245 Big-Data Systems and Intelligence Analytics Exam Syllabus

The exam will be in one part.

1. An online HackerRank exam in our finals slot.

TOPICS:

Descriptive Statistics, Probability Theory, Probability Distributions Inferential Statistics, Test Statistics, Hypothesis Testing Correlation and Regression Regularization Data Visualization Resampling Methods Cross-Validation The Bootstrap Ensemble methods Bagging and Boosting

Algorithm Analysis Data Structures Big-O Master Theorem

Apache Spark

Neural Networks

Recurrent neural network (RNN) Convolutional Neural Networks

Autoencoders

Variational Autoencoders Generative Adversarial Networks (GANs) Deep Generative Models