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

H2O AI

Apache Spark

Neural Networks

Recurrent neural network (RNN)
Convolutional Neural Networks

Autoencoders